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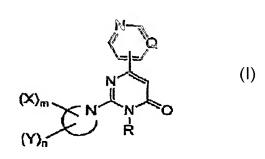
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[Continued on next page]

(54) Title: 2, 3, 6-TRISUBSTITUTED-4-PYRIMIDONE DERIVATIVES



(57) Abstract: A pyrimidone derivative having tau protein kinase 1 inhibitory activity which is represented by formula (I) or a salt thereof, or a solvate thereof or a hydrate thereof; useful for prventive and/or therapeutic treatment of diseass such as neurodegenerative diseases (e.g. Alzheimer disease); wherein Q represents CH or nitrogen atom; R represents a C_1 - C_{12} alkyl group; the ring of Formula (I): represents piperazine ring or piperidine ring; each X independently represents a C_1 - C_8 alkyl group, an optionally partially hydrogenated C_6 - C_{10} aryl ring, an indan ring or the like; m represents an integer of 1 to 3; each Y independently represents a halogen atom, a hydroxy group, a cyano group, a C_1 - C_6 alkyl group or the like; n represents an integer of 0 to 8; when X and Y or two Y groups are attached on the same carbon atom, they may combine to each other to form a C_2 - C_6 alkylene group.

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DESCRIPTION

2,3,6-TRISUBSTITUTED -4-PYRIMIDONE DERIVATIVES

Technical Field

The present invention relates to compounds that are useful as an active ingredient of a medicament for preventive and/or therapeutic treatment of diseases mainly caused by abnormal activity of tau protein kinase 1, such as neurodegenerative diseases (e.g. Alzheimer disease).

Background Art

Alzheimer disease is progressive senile dementia, in which marked cerebral cortical atrophy is observed due to degeneration of nerve cells and decrease of nerve cell number. Pathologically, numerous senile plaques and neurofibrillary tangles are observed in brain. The number of patients has been increased with the increment of aged population, and the disease arises a serious social problem. Although various theories have been proposed, a cause of the disease has not yet been elucidated. Early resolution of the cause has been desired.

It has been known that the degree of appearance of two characteristic pathological changes of Alzheimer disease well correlates to the degree of intellectual dysfunction. Therefore, researches have been conducted from early 1980's to reveal the cause of the disease through molecular level investigations of components of the two pathological changes. Senile plaques accumulate extracellularly, and β amyloid protein has been elucidated as their main component (abbreviated as "A β " hereinafter in the specification: Biochem. Biophys. Res. Commun., 120, 855 (1984); EMBO J., 4, 2757 (1985); Proc. Natl. Acad. Sci. USA, 82, 4245 (1985)). In the other pathological change, i.e., the neurofibrillary tangles, a double-helical filamentous substance called paired helical filament (abbreviated

as "PHF" hereinafter in the specification) accumulate intracellularly, and tau protein, which is a kind of microtubule-associated protein specific for brain, has been revealed as its main component (Proc. Natl. Acad. Sci. USA, 85, 4506 (1988); Neuron, 1, 827 (1988)).

Furthermore, on the basis of genetic investigations, presentlins 1 and 2 were found as causative genes of familial Alzheimer disease (Nature, 375, 754 (1995); Science, 269, 973 (1995); Nature. 376, 775 (1995)), and it has been revealed that presence of mutants of presentlins 1 and 2 promotes the secretion of A β (Neuron, 17, 1005 (1996); Proc. Natl. Acad. Sci. USA, 94, 2025 (1997)). From these results, it is considered that, in Alzheimer disease, A β abnormally accumulates and agglomerates due to a certain reason, which engages with the formation of PHF to cause death of nerve cells. It is also expected that extracellular outflow of glutamic acid and activation of glutamate receptor responding to the outflow may possibly be important factors in an early process of the nerve cell death caused by ischemic cerebrovascular accidents (Sai-shin Igaku [Latest Medicine], 49, 1506 (1994)).

It has been reported that kainic acid treatment that stimulates the AMPA receptor, one of glutamate receptor, increases mRNA of the amyloid precursor protein (abbreviated as "APP" hereinafter in the specification) as a precursor of A β (Society for Neuroscience Abstracts, 17, 1445 (1991)), and also promotes metabolism of APP (The Journal of Neuroscience, 10, 2400 (1990)). Therefore, it has been strongly suggested that the accumulation of A β is involved in cellular death due to ischemic cerebrovascular disorders. Other diseases in which abnormal accumulation and agglomeration of A β are observed include, for example, Down syndrome, cerebral bleeding due to solitary cerebral amyloid angiopathy, Lewy body disease (Shin-kei Shinpo [Nerve Advance], 34, 343 (1990); Tanpaku-shitu Kaku-san Koso [Protein, Nucleic Acid, Enzymel, 41, 1476 (1996)) and the like. Furthermore, as diseases showing neurofibrillary tangles due to the PHF accumulation, examples

include progressive supranuclear palsy, subacute sclerosing panencephalitic parkinsonism, postencephalitic parkinsonism, pugilistic encephalitis, Guam parkinsonism-dementia complex, Lewy body disease and the like (Tanpakushitu Kakusan Koso [Protein, Nucleic Acid, Enzyme], 36, 2 (1991); Igaku no Ayumi [Progress of Medicine], 158, 511 (1991); Tanpakushitu Kakusan Koso [Protein, Nucleic Acid, Enzyme], 41, 1476 (1996)).

The tau protein is generally composed of a group of related proteins that forms several bands at molecular weights of 48-65 kDa in SDS-polyacrylamide gel electrophoresis, and it promotes the formation of microtubules. It has been verified that tau protein incorporated in the PHF in the brain suffering from Alzheimer disease is abnormally phosphorylated compared with usual tau protein (J. Biochem., 99, 1807 (1986); Proc. Natl. Acad. Sci. USA, 83, 4913 (1986)). An enzyme catalyzing the abnormal phosphorylation has been isolated. The protein was named as tau protein kinase 1 (abbreviated as "TPK1" hereinafter in the specification), and its physicochemical properties have been elucidated (Seikagaku [Biochemistry], 64, 308 (1992); J. Biol. Chem., 267, 10897 (1992)). Moreover, cDNA of rat TPK1 was cloned from a rat cerebral cortex cDNA library based on a partial amino acid sequence of TPK1, and its nucleotide sequence was determined and an amino acid sequence was deduced (Japanese Patent Un-examined Publication [Kokai] No. 6-239893/1994). As a result, it has been revealed that the primary structure of the rat TPK1 corresponds to that of the enzyme known as rat GSK-3 β (glycogen synthase kinase 3β , FEBS Lett., 325, 167 (1993)).

It has been reported that A β , the main component of senile plaques, is neurotoxic (Science, 250, 279 (1990)). However, various theories have been proposed as for the reason why A β causes the cell death, and any authentic theory has not yet been established. Takashima et al. observed that the cell death was caused by A β treatment of fetal rat hippocampus primary culture system, and then found that the TPK1 activity was increased by A β treatment and the cell death by

A β was inhibited by antisense of TPK1 (Proc. Natl. Acad. Sci. USA, 90, 7789 (1993);

Japanese Patent Un-examined Publication [Kokai] No. 6-329551/1994).

In view of the foregoing, compounds which inhibit the TPK1 activity may possibly suppress the neurotoxicity of A β and the formation of PHF and inhibit the nerve cell death in the Alzheimer disease, thereby cease or defer the progress of the disease. The compounds may also be possibly used as a medicament for therapeutic treatment of ischemic cerebrovascular disorder, Down syndrome, cerebral amyloid angiopathy, cerebral bleeding due to Lewy body disease and the like by suppressing the cytotoxicity of A β . Furthermore, the compounds may possibly be used as a medicament for therapeutic treatment of neurodegenerative diseases such as progressive supranuclear palsy, subacute sclerosing panencephalitic parkinsonism, postencephalitic parkinsonism, pugilistic encephalitis, Guam parkinsonism-dementia complex, Lewy body disease, Pick's disease, corticobasal degeneration, frontotemporal dementia, vascular dementia, acute stroke and traumatic injuries, brain and spinal cord trauma, peripheral neuropathies, retinopathies and glaucoma; non-insulin dependent diabetes (such as diabetes type II), and obesity, manic depressive illness, schizophrenia, alopecia, cancers such as breast cancer, non-small cell lung carcinoma, thyroid cancer, T or B-cell leukemia and several virus-induced tumors.

As structurally similar compounds to the compounds of the present invention represented by formula (I) described later, compounds represented by the following formula (A) are known:

wherein R represents 2,6-dichlorobenzyl group, 2-(2-chlorophenyl)ethylamino group, 3-phenylpropylamino group, or 1-methyl-3-phenylpropylamino group (WO98/24782). The compounds represented by formula (A) are characterized to have 4-fluorophenyl group at the 5-position of the pyrimidine ring and a hydroxy group at the 4-position, and not falling within the scope of the present invention. Moreover, main pharmacological activity of the compounds represented by formula (A) is anti-inflammatory effect, whereas the compounds of the present invention represented by formula (I) are useful as a TPK1 inhibitor or a medicament for therapeutic treatment of neurodegenerative diseases, and therefore, their pharmacological activities are totally different to each other.

Patent Document 1: WO 00/18758

Patent Document 2: WO 01/70728

Patent Document 3: WO 01/70729

Disclosure of the Invention

An object of the present invention is to provide compounds useful as an active ingredient of a medicament for preventive and/or therapeutic treatment of diseases such as Alzheimer disease. More specifically, the object is to provide novel compounds useful as an active ingredient of a medicament that enables radical prevention and/or treatment of the neurodegenerative diseases such as Alzheimer disease by inhibiting the TPK1 activity to suppress the neurotoxicity of A β and the formation of the PHF and by inhibiting the death of nerve cells.

In order to achieve the foregoing object, the inventors of the present invention conducted screenings of various compounds having inhibitory activity against the phosphorylation of TPK1. As a result, they found that compounds represented by the following formula (I) had the desired activity and were useful as an active ingredient of a medicament for preventive and/or therapeutic treatment of

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the aforementioned diseases. The present invention was achieved on the basis of these findings.

The present invention thus provides 3-substituted-4-pyrimidone derivatives represented by formula (I) or salts thereof, or solvates thereof or hydrates thereof:

$$(X)_{m} \longrightarrow \begin{pmatrix} N & & & \\ N & &$$

wherein Q represents CH or nitrogen atom;

R represents a C_1 - C_{12} alkyl group which may be substituted; the ring of:

 $\binom{N}{2}$

represents piperazine ring or piperidine ring; each X independently represents

 $X^1 - X^2 -$

wherein X¹ represents an oxo group; a C¹-C³ alkyl group which may be substituted; a C³-C³ cycloalkyl group which may be substituted; an optionally partially hydrogenated C6-C¹0 aryl ring which may be substituted; an indan ring which may be substituted; an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and having 5 to 10 ring-constituting atoms in total; an aralkyloxy group; a group represented by -N(Ra)(Rb) wherein Ra and Rb are the same or different and each is hydrogen, a C¹-C⁴ alkyl group which may be substituted, an aralkyl group which may be substituted, an aryl group which may be substituted, C¹-C⁵ alkylcarbonyl group which may be

substituted,

C3-C8 cycloalkylcarbonyl group which may be substituted, aralkycarbonyl group which may be substituted, C6-C10 arylcarbonyl group which may be substituted, C1-C8 alkysulfonyl group which may be substituted, C3-C8 cycloalkylsulfonyl group which may be substituted, aralkysulfonyl group which may be substituted, C6-C10 arylsulfonyl group which may be substituted,

C₁-C₈ alkyloxycarbonyl group which may be substituted,

C₈-C₈ cycloalkyloxycarbonyl group which may be substituted, aralkyoxycarbonyl group which may be substituted,

 $C_6\text{-}C_{10}$ aryloxycarbonyl group which may be substituted, aminocarbonyl,

N-C₁-C₈ alkylaminocarbonyl group which may be substituted,

N, N'-C1-C8 dialkylaminocarbonyl group which may be substituted,

N-C1-C8 alkyl-N'-C3-C8 cycloalkylaminocarbonyl group which may be substituted,

N-C1-C8 alkyl-N'-aralkylaminocarbonyl group which may be substituted,

 $N\text{-}C_1\text{-}C_8$ alkyl-N'-C_6-C_{10} arylaminocarbonyl group which may be substituted,

C3-C8 cycloalkylaminocarbonyl group which may be substituted,

N,N'-C3-C8 dicycloalkylaminoycarbonyl group which may be substituted,

N-C₃-C₈ cycloalkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C₃-C₈ cycloalkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted, aralkylaminocarbonyl group which may be substituted,

N,N'-diaralkylaminocarbonyl group which may be substituted,

N-aralkyl- N'-C6-C10 arylaminocarbonyl group which may be substituted,

C₆-C₁₀ arylaminocarbonyl group which may be substituted,

N,N'-C₆-C₁₀ diarylaminocarbonyl group which may be substituted, or an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected

from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and having 5 to 10 ring-constituting atoms in total; or Ra and Rb together with the adjacent nitrogen atom form a 4 to 7 membered heterocyclic ring which may further contain 1 to 4 groups selected from an oxygen atom, a sulfur atom, N-Rc (wherein Rc represents a hydrogen atom, a C1-C4 alkyl group which may be substituted, an aralkyl group which may be substituted, C3-C8 cycloalkyl group which may be substituted or an aryl group which may be substituted, C₁-C₈ alkylcarbonyl group which may be substituted, C₃-C₈ cycloalkylcarbonyl group which may be substituted, aralkycarbonyl group which may be substituted, C₆-C₁₀ arylcarbonyl group which may be substituted, C₁-C₈ alkysulfonyl group which may be substituted, C₃-C₈ cycloalkylsulfonyl group which may be substituted, aralkysulfonyl group which may be substituted, C₆-C₁₀ arylsulfonyl group which may be substituted, C1-C8 alkyloxycarbonyl group which may be substituted, C₃-C₈ cycloalkyloxycarbonyl group which may be substituted, aralkyoxycarbonyl group which may be substituted,

N-C1-C8 alkylaminocarbonyl group which may be substituted,

C₆-C₁₀ aryloxycarbonyl group which may be substituted,

aminocarbonyl,

N, N'-C1-C8 dialkylaminocarbonyl group which may be substituted,

N-C₁-C₈ alkyl-N'-C₃-C₈ cycloalkylaminocarbonyl group which may be substituted,

N-C₁-C₈ alkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C₁-C₈ alkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted,

C₃-C₈ cycloalkylaminocarbonyl group which may be substituted,

N,N'-C3-C8 dicycloalkylaminoycarbonyl group which may be substituted,

N-C3-C8 cycloalkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C₃-C₈ cycloalkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted, aralkylaminocarbonyl group which may be substituted,

N,N'-diaralkylaminocarbonyl group which may be substituted,

N-aralkyl- N'-C6-C10 arylaminocarbonyl group which may be substituted,

C₆-C₁₀ arylaminocarbonyl group which may be substituted,

N,N'-C6-C10 diarylaminocarbonyl group which may be substituted,

or an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and having 5 to 10 ring-constituting atoms in total),

a carbonyl group, a sulfinyl group or a sulfonyl group in the ring, and said 4 to 7 membered heterocyclic ring may optionally be fused with an aryl group which may be substituted;

X² represents a bond, a carbonyl group, a sulfinyl group, a sulfonyl group, an oxygen atom, a sulfur atom, a C₁-C₄ alkylene group which may be substituted or N-Rd (Rd represents a hydrogen atom, a C₁-C₄ alkyl group which may be substituted, an aralkyl group which may be substituted, C₃-C₃ cycloalkyl group which may be substituted,

C₁-C₈ alkylcarbonyl group which may be substituted,

C₃-C₈ cycloalkylcarbonyl group which may be substituted, aralkycarbonyl group which may be substituted,

C₆-C₁₀ arylcarbonyl group which may be substituted,

C₁-C₈ alkysulfonyl group which may be substituted,

 $\mathrm{C}_{3}\text{-}\mathrm{C}_{8}$ cycloalkylsulfonyl group which may be substituted,

aralkysulfonyl group which may be substituted,

 C_6 - C_{10} arylsulfonyl group which may be substituted,

C1-C8 alkyloxycarbonyl group which may be substituted,

C₃-C₈ cycloalkyloxycarbonyl group which may be substituted,

aralkyoxycarbonyl group which may be substituted,

C₆-C₁₀ aryloxycarbonyl group which may be substituted, aminocarbonyl,

N-C1-C8 alkylaminocarbonyl group which may be substituted,

N, N'-C1-C8 dialkylaminocarbonyl group which may be substituted,

N-C1-C8 alkyl-N'-C3-C8 cycloalkylaminocarbonyl group which may be substituted,

N-C1-C8 alkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C₁-C₈ alkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted,

C₃-C₈ cycloalkylaminocarbonyl group which may be substituted,

N,N'-C3-C8 dicycloalkylaminoycarbonyl group which may be substituted,

N-C3-C8 cycloalkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C₃-C₈ cycloalkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted, aralkylaminocarbonyl group which may be substituted,

N,N'-diaralkylaminocarbonyl group which may be substituted,

N-aralkyl- N'-C6-C10 arylaminocarbonyl group which may be substituted,

C₆-C₁₀ arylaminocarbonyl group which may be substituted,

 $N,N'-C_6-C_{10}$ diarylaminocarbonyl group which may be substituted, or an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and

having 5 to 10 ring-constituting atoms in total);

m represents an integer of 1 to 3;

each Y independently represents a halogen atom, a hydroxy group, a cyano group, Y¹-Y³- wherein Y¹ represents a C₁-C² alkyl group which may be substituted; a C³-C² cycloalkyl group which may be substituted or a C²-C¹0 aryl ring which may be substituted; Y³ represents a carbonyl group, a sulfinyl group, a sulfonyl group, an oxygen atom, a sulfur atom, a C¹-C⁴ alkylene group which may be substituted or N-Re (Re represents a hydrogen atom, a C¹-C⁴ alkyl group which may be substituted, an aralkyl group which may be substituted, C³-C² cycloalkyl group which may be substituted or an aryl group which may be substituted,

C1-Cs alkylcarbonyl group which may be substituted,
C3-C8 cycloalkylcarbonyl group which may be substituted,
aralkycarbonyl group which may be substituted,
C6-C10 arylcarbonyl group which may be substituted,
C1-C8 alkysulfonyl group which may be substituted,
C3-C8 cycloalkylsulfonyl group which may be substituted,
aralkysulfonyl group which may be substituted,
C6-C10 arylsulfonyl group which may be substituted,
C1-C8 alkyloxycarbonyl group which may be substituted,
C1-C8 alkyloxycarbonyl group which may be substituted,
C3-C8 cycloalkyloxycarbonyl group which may be substituted,
aralkyoxycarbonyl group which may be substituted,
C6-C10 aryloxycarbonyl group which may be substituted,
aminocarbonyl,

N-C1-C8 alkylaminocarbonyl group which may be substituted,

N, N'-C₁-C₈ dialkylaminocarbonyl group which may be substituted,

N-C₁-C₈ alkyl-N'-C₃-C₈ cycloalkylaminocarbonyl group which may be substituted,

N-C₁-C₈ alkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C₁-C₈ alkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted,

C₃-C₈ cycloalkylaminocarbonyl group which may be substituted,

 $N,N'-C_3-C_8$ dicycloalkylaminoycarbonyl group which may be substituted,

N-C3-C8 cycloalkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C₃-C₈ cycloalkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted, aralkylaminocarbonyl group which may be substituted,

N,N'-diaralkylaminocarbonyl group which may be substituted,

N-aralkyl- N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted,

C₆-C₁₀ arylaminocarbonyl group which may be substituted,

N,N'-C6-C10 diarylaminocarbonyl group which may be substituted,

or an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected

from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and having 5 to 10 ring-constituting atoms in total),

n represents an integer of 0 to 8;

when X and Y or two Y groups are attached on the same carbon atom, they may combine to each other to form a C_2 - C_6 alkylene group; and when m is 1, n is 0, and X is X^1 -CO-,

- (1) X does not bind to 3-position of unsubstituted 1-piperazinyl group or does not bind to 3-position of a 4-alkyl-1-piperazinyl group; or
- (2) X does not bind to 3-position or 4-position of non-substituted 1-piperidinyl group.

According to another aspect of the present invention, there is provided a medicament comprising as an active ingredient a substance selected from the group consisting of the 3-substituted-4-pyrimidone derivatives represented by formula (I) and the physiologically acceptable salts thereof, and the solvates thereof and the hydrates thereof. As preferred embodiments of the medicament, there are provided the aforementioned medicament which is used for preventive and/or therapeutic treatment of diseases caused by tau protein kinase 1 hyperactivity, and the aforementioned medicament which is used for preventive and/or therapeutic treatment of neurodegenerative diseases.

As further preferred embodiments of the present invention, there are provided the aforementioned medicament wherein the diseases are selected from the group consisting of Alzheimer disease, ischemic cerebrovascular accidents, Down syndrome, cerebral bleeding due to cerebral amyloid angiopathy, progressive supranuclear palsy, subacute sclerosing panencephalitic parkinsonism, postencephalitic parkinsonism, pugilistic encephalitis, Guam parkinsonism-dementia complex, Lewy body disease, Pick's disease, corticobasal degeneration and frontotemporal dementia, vascular dementia, acute stroke and

traumatic injuries, brain and spinal cord trauma, peripheral neuropathies, retinopathies and glaucoma, non-insulin dependent diabetes (such as diabetes type II), and obesity, manic depressive illness, schizophrenia, alopecia, cancers such as breast cancer, non-small cell lung carcinoma, thyroid cancer, T or B-cell leukemia and several virus-induced tumors; and the aforementioned medicament in the form of pharmaceutical composition containing the above substance as an active ingredient together with one or more pharmaceutical additives.

The present invention further provides an inhibitor of tau protein kinase 1 comprising as an active ingredient a substance selected from the group consisting of the 3-substituted-4-pyrimidone derivatives of formula (I) and the salts thereof, and the solvates thereof and the hydrates thereof.

According to further aspects of the present invention, there are provided a method for preventive and/or therapeutic treatment of diseases caused by tau protein kinase 1 hyperactivity, which comprises the step of administering to a patient a preventively and/or therapeutically effective amount of a substance selected from the group consisting of the 3-substituted-4-pyrimidone derivatives of formula (I) and the physiologically acceptable salts thereof, and the solvates thereof and the hydrates thereof; and a use of a substance selected from the group consisting of the 3-substituted-4-pyrimidone derivatives of formula (I) and the physiologically acceptable salts thereof, and the solvates thereof and the hydrates thereof for the manufacture of the aforementioned medicament.

Best Mode for Carrying Out the Invention

In the present specification, each group has the following meanings.

The alkyl group used herein may be either linear or branched.

The C₁-C₁₂ alkyl group represented by R may be, for example, methyl group, ethyl group, n-propyl group, isopropyl group, n-butyl group, isobutyl group, sec-butyl group, tert-butyl group, n-pentyl group, isopentyl group, neopentyl group,

1,1-dimethylpropyl group, n-hexyl group, isohexyl group, or a linear or branched heptyl group, octyl group, nonyl group, decyl group, undecyl group or dodecyl group. Particularly preferred R is methyl group.

In the specification, when a functional group is defined as "which may be substituted" or "optionally substituted", the number of substituents as well as their types and substituting positions are not particularly limited, and when two or more substituents are present, they may be the same or different.

When the C_1 - C_{12} alkyl group represented by R has one or more substituents, the alkyl group may have one or more substituents selected from, for example, the groups consisting of a C_3 - C_8 cycloalkyl group such as cyclopropyl group, cyclobutyl group, cyclopentyl group, cyclohexyl group, cyclohexyl group, cycloheptyl group, cyclooctyl group; a C_1 - C_5 alkoxy group such as methoxy group, ethoxy group, propoxy group, isopropoxy group, butoxy group, isobutoxy group, tert-butoxy group; C_1 - C_3 alkylamino group or C_2 - C_6 dialkylamino group; a C_6 - C_{10} aryl group such as phenyl group, 1-naphthyl group, and 2-naphthyl group.

The C₁-C₈ alkyl group may be, for example, methyl group, ethyl group, n-propyl group, isopropyl group, n-butyl group, isobutyl group, sec-butyl group, tert-butyl group, n-pentyl group, isopentyl group, neopentyl group, 1,1-dimethylpropyl group, n-hexyl group, isohexyl group, or a linear or branched heptyl group or octyl group.

The C₁-C₄ alkyl group may be, for example, methyl group, ethyl group, n-propyl group, isopropyl group, n-butyl group, isobutyl group, sec-butyl group or tert-butyl group.

The C_8 - C_8 cycloalkyl group may be, for example, cyclopropyl group, cyclobutyl group, cyclopentyl group, cyclohexyl group, cycloheptyl group or cycloctyl group.

The optionally partially hydrogenated C_6 - C_{10} aryl ring may be, for example a benzene ring, a naphthalene ring, an indan ring or a

1,2,3,4-tetrahydronaphthalene ring.

The heterocyclic ring having 1 to 4 hetero atoms selected from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and having 5 to 10 ring-constituting atoms in total may be, for example, furan ring, dihydrofuran ring, tetrahydrofuran ring, pyran ring, dihydropyran ring, tetrahydropyran ring, benzofuran ring, dihydrobenzofuran, isobenzofuran ring, benzodioxol ring, chromene ring, chroman ring, isochroman ring, thiophene ring, benzothiophene ring, pyrrole ring, pyrroline ring, pyrrolidine ring, 2-oxopyrrolidine ring, imidazole ring, imidazoline ring, imidazolidine ring, pyrazole ring, pyrazoline ring, pyrazolidine ring, triazole ring, tetrazole ring, pyridine ring, pyridine oxide ring, piperidine ring, 4-oxopiperidine ring, pyrazine ring, piperazine ring, homopiperazine ring, pyrimidine ring, pyridazine ring, indole ring, indoline ring, isoindole ring, isoindoline ring, indazole ring, benzimidazole ring, benzotriazole ring, tetrahydroisoquinoline ring, benzothiazolinone ring, benzoxazolinone ring, purine ring, quinolizine ring, quinoline ring, phthalazine ring, naphthyridine ring, quinoxaline ring, quinazoline ring, cinnoline ring, pteridine ring, oxazole ring, oxazolidine ring, isoxazole ring, isoxazolidine ring, oxadiazole ring, thiazole ring, benzothiazole ring, thiazylidine ring, isothiazole ring, isothiazolidine ring, benzodioxole ring, dioxane ring, benzodioxane ring, dithian ring, morpholine ring, thiomorpholine ring, or phthalimide ring.

The aralkyl group may be, for example, benzyl group, 2-phenylethyl group, 3-phenylpropyl group or 4-phenylbutyl group.

The C_1 - C_4 alkylene group may be, for example, methylene, ethylene, trimethylene or tetramethylene.

The 4 to 7 membered heterocyclic ring which may further contain 1 to 4 groups may be, for example, pyrrolidine, piperidine, morpholine, thiomorpholine, piperazine, homopiperazine, 2-oxopyrrolidine, pyrrole, imidazoline, imidazole, pyrazole, pyrroline, pyrrolidine, imidazolidine, imidazolone, succinimide or

glutarimide.

The C_6 - C_{10} aryl ring may be, for example, a benzene ring or a naphthalene ring, and the aryl group or the C_6 - C_{10} aryl group may be, for example, a phenyl group or naphthyl group.

When the ring represented by X or X^1 has one or more substituents, the ring may have one or more substituents selected from the group consisting of a C1-C5 alkyl group such as methyl group, ethyl group, propyl group, isopropyl group, butyl group, isobutyl group, sec-butyl group, tert-butyl group, pentyl group, isopentyl group, neopentyl group, 1,1-dimethylpropyl group; C₃-C₆ cycloalkyl group such as cyclopropyl group, cyclobutyl group, cyclopentyl group, cyclohexyl group; a C₃-C₆ cycloalkyl-C₁-C₄ alkyl group such as cyclopropylmethyl, cyclopentylmethyl, cyclohexylmethyl; a C1-C4 hydroxyalkyl group such as hydroxymethyl, hydroxyethyl, hydroxypropyl; a halogen atom such as fluorine atom, chlorine atom, bromine atom, and iodine atom; a C_1 - C_5 halogenated alkyl group such as trifluoromethyl group; hydroxyl group; cyano group; nitro group; formyl group; a benzene ring which may be substituted; a naphthalene ring which may be substituted; an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected from the group consisting of oxygen atom, sulfur atom and nitrogen atom, and having 5 to 10 ring-constituting atoms in total (same as the above); an amino group; an N- C3-C6 cycloalkyl-N- C_1 - C_4 alkylaminoalkyl group wherein said C_1 - C_4 alkyl may be substituted by hydroxy group or C1-C4 alkoxy group such as N-cyclopropyl-N-methylaminomethyl group, N-cyclohexyl-N-methylaminomethyl group; a C₁-C₅ monoalkylaminomethyl group such as methylaminomethyl group, ethylaminomethyl group, propylaminomethyl group, isoproylaminomethyl group, butylaminomethyl group, isobutylaminomethyl group, tert-butylaminomethyl group, pentylaminomethyl group, isopentylaminomethyl group; a C2-C10 dialkylaminomethyl group such as dimethylaminomethyl group, diethylaminomethyl group, ethylmethylaminomethyl group,

methylpropylaminomethyl group; pyrrolidinylmethyl group; piperidinylmethyl group; morpholinomethyl group; piperazinylmethyl group; pyrrolylmethyl group; imidazolylmethyl group; pyrazolylmethyl group; triazolylmethyl group; and a group of the formula -E-Rf wherein E represents O, S, SO, SO₂, CO or N(R4) and Rf represents a C_1 - C_5 alkyl group (same as the above), a C_4 - C_7 cycloalkyl group (same as the above), a C₄-C₇ cycloalkylalkl group (same as the above), a C₁-C₅ hydroxyalkyl group (same as the above), a benzene ring which may be substituted, a naphthalene ring which may be substituted, an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected from the group consisting of oxygen atom, sulfur atom and nitrogen atom, and having 5 to 10 ring-constituting atoms in total (same as the above), an N-C₃-C₆ cycloalkyl-N-C₁-C₄ alkylaminoalkyl group (same as the above), a C_1 - C_5 monoalkylaminoalkyl group (same as the above), C₂-C₁₀ dialkylaminoalkyl group (same as the above), pyrrolidinylmethyl group, piperidinylmethyl group, morpholinomethyl group, piperazinylmethyl group, pyrrolylmethyl group, imidazolylmethyl group, pyrazolylmethyl group or triazolylmethyl group,

C1-C8 alkylcarbonyl group which may be substituted,
C3-C8 cycloalkylcarbonyl group which may be substituted,
aralkycarbonyl group which may be substituted,
C6-C10 arylcarbonyl group which may be substituted,
C1-C8 alkysulfonyl group which may be substituted,
C3-C8 cycloalkylsulfonyl group which may be substituted,
aralkysulfonyl group which may be substituted,
C6-C10 arylsulfonyl group which may be substituted,
C1-C8 alkyloxycarbonyl group which may be substituted,
C1-C8 alkyloxycarbonyl group which may be substituted,
C3-C8 cycloalkyloxycarbonyl group which may be substituted,
aralkyoxycarbonyl group which may be substituted,
C6-C10 aryloxycarbonyl group which may be substituted,

aminocarbonyl,

N-C₁-C₈ alkylaminocarbonyl group which may be substituted,

N, N'-C1-C8 dialkylaminocarbonyl group which may be substituted,

N-C1-C8 alkyl-N'-C3-C8 cycloalkylaminocarbonyl group which may be substituted,

N-C1-C8 alkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C₁-C₈ alkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted,

C₃-C₈ cycloalkylaminocarbonyl group which may be substituted,

N,N'-C3-C8 dicycloalkylaminoycarbonyl group which may be substituted,

N-C₃-C₅ cycloalkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C₃-C₈ cycloalkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted, aralkylaminocarbonyl group which may be substituted,

N,N'-diaralkylaminocarbonyl group which may be substituted,

N-aralkyl- N'-C6-C10 arylaminocarbonyl group which may be substituted,

C₆-C₁₀ arylaminocarbonyl group which may be substituted,

N,N'-C₆-C₁₀ diarylaminocarbonyl group which may be substituted,

and R⁴ represents a hydrogen atom, a C₁-C₄ alkyl group which may be substituted, an aralkyl group which may be substituted, C₃-C₈ cycloalkyl group which may be substituted or an aryl group which may be substituted,

C₁-C₈ alkylcarbonyl group which may be substituted,

 $C_3\text{-}C_8$ cycloalkylcarbonyl group which may be substituted,

aralkycarbonyl group which may be substituted,

C₆-C₁₀ arylcarbonyl group which may be substituted,

C₁-C₈ alkysulfonyl group which may be substituted,

C₃-C₈ cycloalkylsulfonyl group which may be substituted,

aralkysulfonyl group which may be substituted,

C₆-C₁₀ arylsulfonyl group which may be substituted,

C₁-C₈ alkyloxycarbonyl group which may be substituted,

C₃-C₈ cycloalkyloxycarbonyl group which may be substituted,

aralkyoxycarbonyl group which may be substituted, C_6 - C_{10} aryloxycarbonyl group which may be substituted, aminocarbonyl,

N-C₁-C₈ alkylaminocarbonyl group which may be substituted,

N, N'-C1-C8 dialkylaminocarbonyl group which may be substituted,

N-C₁-C₈ alkyl-N'-C₃-C₈ cycloalkylaminocarbonyl group which may be substituted,

N-C1-C8 alkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C₁-C₈ alkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted,

C₃-C₈ cycloalkylaminocarbonyl group which may be substituted,

N,N'-C3-C8 dicycloalkylaminoycarbonyl group which may be substituted,

N-C₃-C₈ cycloalkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C₃-C₈ cycloalkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted, aralkylaminocarbonyl group which may be substituted,

N,N'-diaralkylaminocarbonyl group which may be substituted,

N-aralkyl- N'-C6-C10 arylaminocarbonyl group which may be substituted,

C₆-C₁₀ arylaminocarbonyl group which may be substituted,

N,N'-C₆-C₁₀ diarylaminocarbonyl group which may be substituted,

or an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and having 5 to 10 ring-constituting atoms in total.

When the C₆-C₁₀ aryl ring represented by Y¹ has one or more substituents, the ring may be substituted by one or more substituents selected from the groups consisting of halogen atoms, a C₁-C₅ alkyl group, a C₃-C₆ cycloalkyl group, a C₃-C₆ cycloalkyloxy group, a C₁-C₅ alkoxy group, a C₄-C₇ cycloalkylalkoxy, a C₁-C₅ alkylthio group, a C₁-C₅ alkylsulfonyl group, a C₁-C₅ halogenated alkyl, and a benzene ring.

When the ring represented by X, X^1 or Y^1 has one or more substituents, the substituent may further have one or more substituents selected from the group

consisting of a C1-C5 alkyl group such as methyl group, ethyl group, propyl group, isopropyl group, butyl group, isobutyl group, sec-butyl group, tert-butyl group, pentyl group, isopentyl group, neopentyl group, 1,1-dimethylpropyl group; C3-C6 cycloalkyl group such as cyclopropyl group, cyclobutyl group, cyclopentyl group, cyclohexyl group; a C3-C6 cycloalkyloxy group such as cyclopropyloxy group, cyclobutyloxy group, cyclopentyloxy group, cyclohexyloxy group; C1-C4 hydroxyalkyl group such as hydroxymethyl group, hydroxyethyl group, hydroxypropyl group, hydroxybutyl group; a C1-C5 alkoxy group such as methoxy group, ethoxy group, propoxy group, isopropoxy group, butoxy group, isobutoxy group, tert-butoxy group, pentyloxy group, and isopentyloxy group; a C4-C7 cycloalkylalkoxy group such as cyclopropylmethoxy group, cyclopentylmethoxy group; a C1-C5 alkylthio group such as methylthio group, ethylthio group, propylthio group, butylthio group, and pentylthio group; a C1-C5 alkylsulfonyl group such as methanesulfonyl group, ethanesulfonyl group, propanesulfonyl group, butanesulfonyl group, and pentanesulfonyl group; a halogen atom such as fluorine atom, chlorine atom, bromine atom, and iodine atom; a C1-C5 halogenated alkyl group such as trifluoromethyl group; a C₁-C₅ halogenated alkoxy group such as trifluoromethoxy group, 2,2,2-trifluoroethoxy group; hydroxyl group; cyano group; nitro group; formyl group; a C2-C6 alkylcarbonyl group such as acetyl group, propionyl group, butyryl group, and valeryl group; amino group; a C_1 - C_5 monoalkylamino group such as methylamino group, ethylamino group, propylamino group, isopropylamino group, butylamino group, isobutylamino group, tert-butylamino group, pentylamino group, and isopentylamino group; a C2-C10 dialkylamino group such as dimethylamino group, ethylmethylamino group, diethylamino group, methylpropylamino group, and diisopropylamino group; a cyclic amino group such as pyrrolidinyl group, piperidino group, morpholino group; a C2-C10 monoalkylaminomethyl group such as methylaminomethyl group, ethylaminomethyl group, propylaminomethyl group, isoproylaminomethyl group, butylaminomethyl group, isobutylaminomethyl group,

tert-butylaminomethyl group, pentylaminomethyl group, isopentylaminomethyl; a C₃-C₁₁ dialkylaminomethyl group such as dimethylaminomethyl group, diethylaminomethyl group, ethylmethylaminomethyl group, methylpropylaminomethyl group; a phenyl group; an aralkyloxy group such as benzyloxy, 2-phenylethyloxy, 3-phenylpropyloxy; an aralkyloxycarbonyl group such as benzyloxycarbonyl, 2-phenylehoxycarbonyl; an C2-C4 alkanoyloxy-C1-C4 alkyl group such as acetyloxymethyl, 2-acetyloxyethyl, 2-propionyloxyethyl; an alkanoylamino group such as acetylamino, propionylamino, butyrylamino; N-C1-C4 alkyl-N-alkanoylamino group such as N-methyl-N-acetylamino, N-ethyl-N-acetylamino, N-methyl-N-propionylamino, N-methyl-N-butyrylamino; a heterocyclic ring amino group such as pyridylamino, pyrimidinylamino, thienylamino, furylamino; N-C1-C4 alkyl-N-heterocyclic ring amino group such as N-methyl-N-pyridylamino, N-methyl-N-pyrimidinylamino, N-methyl-N-thienylamino, N-methyl-N-furylamino; a diheterocyclic ring amino group such as dipyridylamino, dipyrimidinylamino, dithienylamino, difurylamino, and the like.

R may preferably be a C_1 - C_3 alkyl group, more preferably a methyl group or an ethyl group. The substituent of the alkyl group may preferably be a C_3 - C_8 alkyl group.

X may preferably be a benzene ring which may be substituted, a benzyl group which may be substituted, a naphthyl group which may be substituted, a benzofuran ring which may be substituted, a dihydrobenzofuran ring which may be substituted, a benzisoxazole ring which may be substituted, a benzisoxazole ring which may be substituted, a benzisothiazole ring which may be substituted, a benzisothiazole ring which may be substituted, a benzisothiazole ring which may be substituted, and a benzopyrazole ring which may be substituted; more preferably a benzene ring which may be substituted, a benzyl group which may be substituted. Substituent of X may preferably be selected from the group consisting of a halogen

atom, a C₁-C₄ alkyl group, a C₁-C₄ alkoxy group, a hydroxy group, a nitro group, a cyano group, a perhalogenated C₁-C₄ alkyl group, a carboxyl group, a C₁-C₄ alkoxycarbonyl group, a C₁-C₄ alkylthio group, a C₁-C₄ alkoxysulfonyl group, amino group which may be substituted by a C₁-C₄ alkyl group, a benzene ring which may be substituted, and a cyclic amino group which may be substituted.

The compounds represented by the aforementioned formula (I) may form a salt. Examples of the salt include, when an acidic group exists, salts of alkali metals and alkaline earth metals such as lithium, sodium, potassium, magnesium, and calcium; salts of ammonia and amines such as methylamine, dimethylamine, trimethylamine, dicyclohexylamine, tris(hydroxymethyl)aminomethane,

N,N-bis(hydroxyethyl)piperazine, 2-amino-2-methyl-1-propanol, ethanolamine,

N-methylglucamine, and L-glucamine; or salts with basic amino acids such as lysine, δ-hydroxylysine, and arginine. When a basic group exists, examples include salts with mineral acids such as hydrochloric acid, hydrobromic acid, sulfuric acid, nitric acid, phosphoric acid; salts with organic acids such as methanesulfonic acid, benzenesulfonic acid, p-toluenesulfonic acid, acetic acid, propionic acid, tartaric acid, fumaric acid, maleic acid, malic acid, oxalic acid, succinic acid, citric acid, benzoic acid, mandelic acid, cinnamic acid, lactic acid, glycolic acid, glucuronic acid, ascorbic acid, nicotinic acid, and salicylic acid; or salts with acidic amino acids such as aspartic acid, and glutamic acid.

In addition to the 3-substituted-4-pyrimidone derivatives represented by the aforementioned formula (I) and salts thereof, their solvates and hydrates also fall within the scope of the present invention. The 3-substituted-4-pyrimidone derivatives represented by the aforementioned formula (I) may have one or more asymmetric carbon atoms. As for the stereochemistry of such asymmetric carbon atoms, they may independently be in either (R) and (S) configuration, and the pyrimidone derivative may exist as stereoisomers such as optical isomers, or diastereoisomers. Any stereoisomers in a pure form, any mixtures of stereoisomers,

racemates and the like fall within the scope of the present invention.

Preferred compounds of the present invention are represented by formula (II):

$$(X)_{p} \qquad (II)$$

$$(X)_{q} \qquad (Y)_{r}$$

wherein Q, R, X, Y are the same as those defined above; p is 0 or 1; q is 0 or 1; r is an integer of 0 to 6; p+q is 1 or 2;

and Z represents N or CZ1 wherein Z1 represents hydrogen atom or Y.

Examples of more preferred classes of compounds represented by formula (II) include:

- (1) those wherein R represents a C_1 - C_3 alkyl group which may be substituted by a C_3 - C_8 cycloalkyl group;
- (2) the compounds of the above (1) wherein R is methyl group or ethyl group; Y is in 3-, 4- or 5-position of the piperazine ring or the piperidine ring; p+q is 1; and r is an integer of 0 to 3;
- (3) the compounds of the above (2) wherein X is a C_1 - C_8 alkyl group which may be substituted or a C_6 - C_{10} aryl ring which may be substituted; Y is a C_1 - C_6 alkyl group which may be substituted; p is 1; q is 0; r is an integer of 0 to 3; and Z is N or CH; (4) the compounds of the above (3) wherein X is a benzene ring which may be substituted, a benzyl group which may be substituted; Y is a methyl group which may be substituted; Z is N and r is 0 or 1;
- (5) the compounds of the above (2) wherein X is a benzene ring which may be substituted, a benzyl group which may be substituted, a benzoyl group which may be substituted, or a benzisothiazol ring which may be substituted; Y is a methyl

group which may be substituted; Z is N and p is 0;

(6) the compounds of the above (2) wherein X is a C_1 - C_8 alkyl group substituted by a benzene ring which may be substituted or a benzene ring which may be substituted; Y is a hydroxy group, a cyano group, or Y¹-CO- wherein Y¹ is a C_1 - C_8 alkyl group; Z is CH or C-Y and r is 0 or 1; and

(7) the compounds of the above (6) wherein X is a benzyl group which may be substituted or a benzene ring which may be substituted; Y is a hydroxy group, a cyano group, or an acetyl group; Z is CH or C-Y and r is 0 or 1.

Examples of particularly preferred classes of compounds represented by formula (II) include:

- (1) those wherein R is methyl group, Y is CH₃O-CO- group or CH₃CH₂O-CO- group, Z is N, p is 0, q is 1, r is 0 or 1 and Y is in 3-position of the piperazine ring;
- (2) those wherein R is methyl group, Y is methyl group, benzyl group or acetyl group, Z is N, p is 1, q is 0, r is 0 or 1 and Y is in 4-position of the piperazine ring;
- (3) those wherein R is methyl group, Y is methyl group, Z is N, p is 1, q is 0, r is 1 to 3 and Y is in 3-, 4-, or 5-position of the piperazine ring;
- (4) those wherein R is methyl group, Y is hydroxyl group or cyano group, Z is CH, p is 1, q is 0, r is 0 or 1 and X and Y are attached on the same carbon atom;
- (5) those wherein R is methyl group, Y is hydroxyl group, cyano group or acetyl group, Z is C-Y, p is 0, q is 1 and r is 1.

Examples of preferred compounds of the present invention are shown in the tables below. However, the scope of the present invention is not limited to the following compounds.

Table-1		·				
		R ³ R ² N			,	
		R ⁴ -N R ¹			٠	
No.	R1	R2	R3	R4	R5	R6
XA1	CH3-	Н	H	CH3-	Η	H
XA2	СН3-	Н	Н	CH3CH2-	H	H
XA3	CH3-	H	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	H.
XA4	СН3-	H	Н	Y 10	Н	Н
XA5	CH3-	Н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
XA6	СН3-	Н	Н	<u></u>	н .	Н
XA7	CH3-	Н	Н	<u> </u>	Н	Н
XA8	СН3-	Н	Н	7,4	Н	Н
XA9	снз-	Н	Н	^ \\	Н	Н.
XA10	снз-	Н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	н
XA11	СН3-	Н	Н	\ \`\	Н	Н
XA12	СН3	Н	Н	→	Н	Н
XA13	снз-	Н	Н	✓✓	н .	Н
XA14	снз-	Н	н	人、	Н	н
XA15	снз-	Н	Н	^^^ ² \	н	н
XA16	снз-	Н	н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
XA17	снз-	Н	н	n-C8H17-	н	Н
XA18	СН3-	Н	н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
XA19	СН3-	Н	Н	Or_	Н	н
XA20	СН3-	Н	Н		Н	Н
XA21	СН3-	Н	Н	Ovr_	Н .	Н
XA22	снз-	Н	Н	\triangleright	н	Н
XA23	снз-	Н	н	\Diamond	Н	Н
XA24	СН3-	н	н		Н	Н
XA25	снз-	н	н		Н	Н

No.	R1	R2	R3	R4	R5	R6
XA26	СН3-	Н	н		Н	н
XA27	CH3-	Н	Н	◯ −₁	Н	Н
XA28	снз-	Н	н	F	 H	Н
XA29	СН3-	H	Н	<u></u>	H	Н
XA30	снз-	Н	H	F-{_}{	Н	Ĥ
XA31	СН3-	Н	Н	CI 	Н	Н
XA32	СН3-	Н	Н	CI	Н	Н
XA33	СН3-	Н	Н	C⊢(Н	Н
- XA34	СН3-	Н	Н	Br ∰-{	Н	Н
XA35	СН3-	Н	Н	Br. —}	Н	н
XA36	CH3-	Н	Н	Br—⟨{}	Н .	Н
XA37	CH3-	Н	Н	<u></u> -₁	Н	Н
XA38	CH3-	Н	Н		Н	Н
XA39	CH3-	Н	Н	-	н	Н
XA40	CH3-	Н	Н	CH₃	Н	Н
XA41	CH3-	Н	Н	H ₃ C	Н	Н
XA42	CH3-	H	Н	H ₃ C-{}	Н	Н
XA43	СН3-	Н	Н	C ₂ H ₅ —{{{1}}}—{	Н	Н
XA44	CH3-	Н	Н	n-C ₃ H ₇ {_}	H	Н
XA45	СН3-	Н	Н	n-C ₄ H ₉ {}-{	Н	Н
XA46	СН3-	Н	Н	OH →	Н	Н
XA47	СН3-	Н	Н	HO ———	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA48	CH3-	Н	н	HO-{\bigcirc}{	н	н
XA49	СН3-	Н	н	OCH₃	н	н
XA50	снз-	Н	Н	H₃CQ ——{	Н	Н
XA51	снз-	Н	Н	H ₃ CO-{}-{	Н	Н
XA52	СН3-	н	Н	C ₂ H ₅ O-{	н	H
XA53	СН3-	н	Н	n-C ₃ H ₇ O-	Н	Н
XA54	СН3-	Н	Н	n-C ₄ H ₉ O-	Н	Н
XA55	СН3-	Н	Н	NO ₂	Н	Н
XA56	СН3-	Н	Н	O ₂ N	Н	Н
XA57	СН3-	н	Н	O_2N-	Н	Н
XA58	СН3-	н	Н	CN	Н	Н
XA59	CH3-	Н	Н	NC —	Н	Н
XA60	снз-	Н	Н	NC-{}	Н	Н
XA61	СН3-	н .	н	CF ₃	Н	Н
XA62	CH3-	Н	Н	F ₃ C	н	Н
XA63	СН3-	Н	Н	F ₃ C-{	н	Н
XA64	CH3-	Н	Н	COOH	н	Н
XA65	CH3-	Н	Н	HOOC	н	Н
XA66	СН3-	Н	Н	HOOC-{_}-{	Н	Н
XA67	СН3-	Н	Н	CO ₂ Me	Н	Н
XA68	СН3-	Н	Н	MeO ₂ C	Н	Н
XA69	СН3-	Н	Н	MeO ₂ C-{}	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA70	снз-	Н	Н	CO ₂ Et	Н	н
XA71	снз-	Н	н	EtO ₂ C	Н	н
XA72	СН3-	Н	Н	EtO ₂ C-{}	Н	Н
XA73	СН3-	Н	Н	SMe —∤	Н	Н
XA74	СН3-	Н	Н	MeS	Н	H
XA75	снз-	Н	н	MeS-{}	Н	Н
XA76	снз-	Н	Н	SO₂Me	Н	Н
XA77	СН3-	Н	Н	MeO ₂ S	Н	Н
XA78	CH3-	Н	Н	MeO ₂ S-{{}	Н	Н
XA79	СН3-	Н	Н	NH ₂	H	Н
XA80	СН3-	Н	Н	H ₂ N	Н	н
XA81	СН3-	Н	Н	H_2N	Н	Н
XA82	CH3-	Н	Н	NMe₂	Н	Н
XA83	СН3-	Н	Н	Me ₂ N	Н	н
XA84	СН3-	Н	н	Me ₂ N-√	Н	н
XA85	СН3-	Н	н		Н	н
XA86	CH3-	Н	Н	CCT	Н	н
XA87	CH3-	Н	Н	H	Н	Н
XA88	СН3-	Н	Н	HN	Н	Н
XA89	СН3-	Н	н	Of	н	Н
XA90	СН3-	Н	Н	67 ₇	Н	Н
XA91	СН3-	Н	Н	SLI	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA92	СН3-	Н	н	S ,	Н	Н
XA93	СН3-	н	н	HNN	Н	н
XA94	снз-	н	Н	HN	Н	н
XA95	СН3-	Н	Н	/=Ñ HN	Н	,н
XA96	СН3-	Н	Н	N N N	Н	н
XA97	CH3	Н	Н	ON S	Н	Н
XA98	СН3-	н	Н	N= O	Н	Н
XA99	СН3-	Н	Н	N-O	Н	Н
XA100	СН3-	Н	Н	S _N ,	Н	н.
XA101	СН3-	Н	Н	N= S	н	Н
XA102	СН3-	H .	Н	N-S	Н	н
XA103	СН3-	Н	Н	/=N O,∕∕γ	Н	Н
XA104	СН3-	Н	Н	N.	н	Н
XA105	СН3-	Н	Н	N Z	Н	Н
XA106	СН3-	Н	Н	J=N S	Н	Н
XA107	CH3-	н	н	S	н	Н
XA108	CH3-	Н	Н	N , y	Н	Н
XA109	CH3-	Н	Н	€N.	Н	Н
XA110	CH3-	Н .	Н	N->-ţ	Н	н.
XA111	CH3-	Н	Н	N	Н	Н
XA112	CH3-	Н	Н	EN-₹	Н	Н
XA113	CH3-	Н	Н	N_N_{	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA114	CH3-	Н	Н	N=	Н	Н
XA115	CH3-	Н	Н	CT>~	н	Н
XA116	СН3-	Н	н		Н	H
XA117	CH3-	Н	Н	T H	Н	Н
XA118	CH3-	Н	Н		H	Н
XA119	СН3-	Н	н	,CT _P	Н	Н
XA120	CH3-	Н	Н		Н	Н
XA121	СН3-	Н	Н		Н	Н
XA122	CH3-	Н	Н		Н	Н
XA123	CH3-	Н	Н		Н	Н
XA124	СН3-	Н	H		Н	Н
XA125	СН3-	Н ,	Н	,CT	Н	Н
XA126	CH3-	Н	Н	Č.	Н	н
XA127	СН3-	Н	Н .	(T)-1	Н	н
XA128	CH3-	Н	н		Н	н
XA129	СН3-	H.	Н	Ğ.	Н	Н
XA130	CH3-	H	Н	T CIS	Н	Н
XA131	снз-	Н	Н	,CIS	Н	Н
XA132	снз-	Н	Н	Çî;	Н ′	Н
XA133	СН3-	Н	Н		H ·	Н
XA134	CH3-	Н	Н	J. H	Н	Н
XA135	СН3-	н	Н	L. C.	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA136	CH3-	Н	Н	, Th	Н .	Н
XA137	CH3-	Н	н	Ţ,	Н	Н
XA138	СН3-	Н	Н		Н	Н
XA139	CH3-	Н	Н	J'N	H	Н
XA140	CH3-	Н	н		Н	H
XA141	CH3-	Н	Н ,		Н	Н
XA142	СН3-	Н	Н	ĨN Oo	Н	Н
XA143	CH3-	Н	Н	'TON	н	н
XA144	СН3-	н .	н	¹√∑\S	Н	н
XA145	СН3-	Н	Н		Н	H
XA146	CH3-	Н	Н	(I's	Н	н
XA147	CH3-	Н .	H	N S	Н	Н
XA148	CH3-	Н	Н	'TNS	H	Н
XA149	СН3-	Н	H	, Is	Н	Н
XA150	СН3-	н	н	Ž,s	Н	н
XA151	СН3-	Н	н		Н	н
XA152	CH3-	Н	Н		Н	Н
XA153	CH3-	Н	Н	, CI'M	Н	Н
XA154	CH3-	Н	H ·	, CTON	Н	Н
XA155	CH3-	Н	Н	<u> </u>	Н	Н
XA156	CH3-	Н	Н	(T _n)	Н	Н
XA157	CH3-	н	Н		Н	н

No.	R1	R2	R3	R4	R5	R6
XA158	СН3-	Н	н	"CIN	н	н
XA159	СН3-	н	н	, CT _S N	н	Н
XA160	снз-	Н	н	Ţs ⁿ	н	Н
XA161	СН3-	Н	Н	O il y	Н	н
XA162	CH3-	H ·	Н	FO	Н	H
XA163	CH3-	Н	Н	F J	Н	Н
XA164	CH3-	Н	Н		н	Н
XA165	CH3-	Н	Н	CIO	Н	Н
XA166	СН3-	Н	Н	CI	Н	Н
XA167	CH3-	Н	н		Н	Н
XA168	CH3-	H .	Н	Bro	Н	Н
XA169	CH3-	Н	Н	Br	Н	Н
XA170	CH3-	Н	Н		Н	Н
XA171	СН3-	Н	Н	CHO	Н	Н
XA172	СН3-	Н	H	H ₃ C	Н	н
XA173	СН3-	Н	Н		Н	н
XA174	CH3-	Н ,	H	CH3O O	Н	н
XA175	CH3-	Н	Н	H ₃ CO	Н	Н
XA176	CH3-	Н	Н	H-CO	Н	Н
XA177	CH3-	Н	Н	**NO5	Н	Н
XA178	СН3-	H	Н	O ₂ N	Н	Н
XA179	CH3-	Н	Н		Н	Н

No.	R1	R2	R3	R4	R5	R6
XA180	СН3-	Н	н	QH O	H	н
XA181	СН3-	н	н	но	Н	н
XA182	СН3-	Н	н	HO J.	н	Н
XA183	CH3-	Н	Н	NH O	Н	Н
XA184	СН3-	Н	Н	H ₂ N O	Н	Н
XA185	СН3-	Н	н	11 N	Н	Н
XA186	СН3-	н	Н	EN O	н	Н
XA187	СН3-	Н	Н	NC J.	н	Н
XA188	СН3-	Н	Н		н	Н
XA189	снз–	н	Н		н	Н
XA190	СН3-	Н	Н		Н	Н
XA191	СН3-	Н	Н	<u>,</u>	Н	Н
XA192	СН3-	H	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
XA193	СН3-	Н	Н	~\\	Н	Н
XA194	СН3-	н	н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Н
, XA195	СН3-	H	H.		Н	н
XA196	СН3-	Н	Н	~~\\	Н	Н
XA197	CH3-	Н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
XA198	СН3-	Н	Н	~~~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
XA199	CH3-	Н	Н	~~~ ¹	Н	Н
XA200	CH3-	Н	Н	~~~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н
XA201	СН3-	Н	Н	√ Jr	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA202	СН3-	Н	Н .		н	Н
XA203	СН3-	н	н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	н
XA204	снз-	Н	Н		Н	Н
XA205	СН3-	H³CO, ≻.	н	Н	Н	Н
XA206	CH3-	H³CO, ≻.	н	снз-	Н .	Н
XA207	CH3-	H³CO, ≻ Ö	н	снзсн2-	Н	Н
XA208	CH3-	H³CO, ≻	Н	→ \	Н	Н
XA209	СН3-	H³CO_}\.	н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
XA210	СН3~	H₃CO →	H _	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
XA211	СН3-	H ₃ CO ⁺ >	Н	L,	Н	Н
XA212	СН3-	O H₃CO →	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
XA213	СН3-	H³CO_^	Н	7	Н	Н
XA214	СН3-	O H₃CO ≻	н	^	Н	Н
XA215	CH3-	H³CO, λ	Н	~~	Н	н
XA216	CH3-	H ₃ CO ,	н	X-1	Н	Н
XA217	СН3-	O H₃CO ∵	Н	7	н	н
XA218	СН3-	H ₃ CO ,	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
XA219	CH3-	H ₃ CO \	Н		Н	Н
XA220	СН3-	H³CO, '\	Н	^^^\\\	Н	Н
XA221	CH3-	H³CO, λ.	Н	7~~~~	Н	Н
XA222	CH3-	H ₃ CO">	Н	n-C8H17-	Н	Н
XA223	СН3-	O H ₃ CO '>r	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA224	СН3	H₃CO ≻	Н		Н	Н
XA225	СН3-	O H₃CO ≻	Н		Н	н
XA226	CH3-	H ₃ CO r	Н		Н	н
XA227	снз-	H ₃ CO '	Н	ightharpoonup	Н	Н
XA228	СН3-	H ₃ CO >	Н	├	Н	H
XA229	CH3-	H3CO >	Н		Н	н
XA230	CH3-	O H₃CO >r	Н		Н	H
XA231	CH3-	O H₃CO ≻	Н		н	Н
XA232	CH3-	H³CO, ≻,	Н		н	Н
XA233	CH3-	O H₃CO →	Н	F 	н	Н
XA234	CH3-	O H₃CO →	Н	F;	Н	Н
XA235	снз-	H³CO, Ϟ	Н	F-(Н	Н
XA236	CH3-	O H₃CO →	Н	CI	Н	Н
XA237	СН3-	H ₃ CO '-	Н	CI	Н	Н
XA238	CH3-	H³CO_≻	Н	c⊢(_ \	Н	Н
XA239	СН3-	O H₃CO →	н	Br	Н	н
XA240	снз-	H ₃ CO y	н	Br{{	н .	н
XA241	CH3-	H ₃ CO y	Н	Br─∰	Н	Н
XA242	СН3-	H ₃ CO >	Н	CH₃	Н	Н
XA243	CH3-	H³CO, λ.	Н	H ₃ C	Н	Н
XA244	СН3-	H ₃ CO y	Н	H ₃ C-{}_{{}}	Н	Н
XA245	СН3-	O H₃CO →	Н	C ₂ H ₅ -{{}}	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA246	СН3-	H³CO_}`^	Н	n-C ₃ H ₇ -	Н	Н
XA247	снз-	H ₃ CO y	н	n-C ₄ H ₉ -	н	н
XA248	CH3-	H₃CO ≻	Н	OCH₃	н	Н
XA249	снз-	H³CO_≻ O	Н	H₃CO ——	н	Н
XA250	снз-	H³CO, ≻.	Н	H ₃ CO-{}{	Н	H
XA251	CH3-	H³CO, ≻	н	C ₂ H ₅ O-{{}	Н	Н
XA252	СН3-	H ₃ CO >	Н	n-C ₃ H ₇ O-	н	н
XA253	снз-	H³CO_>	Н	n-C ₄ H ₉ O-	Н	Н
XA254	CH3-	H ₃ CO y	н	NO ₂	Н	Н
XA255	снз-	H ₃ CO ->-	Н	O ₂ N - \{}	Н	н
XA256	СН3-	H ₃ CO ->-	н	O_2N-	Н	Н
XA257	СН3	H³CO_>	Н	CN →	н	Н
XA258	снз-	H³CO, Y	Н	NC	Н	н
XA259	СН3-	H ₃ CO y	н	NC-{}	н	Н
XA260	снз-	H₃CO ≻	н	NMe ₂	н	н
XA261	снз-	H³CO_≻	н	Me ₂ N	н	Н
XA262	снз-	H³CO, ∖	н	Me ₂ N-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
XA263	СН3-	H ₃ CO	Н		Н	н
XA264	СН3-	H³CO, Y	Н	CT'	Н	Н
XA265	СН3-	O H₃CO ≻	Н		Н	Н
XA266	CH3-	H³CQ_>	Н	Qi,	н	Н
XA267	CH3-	O H₃CO ≻	Н		н	Н

No.	R1	R2	R3	R4	R5	R6
XA268	СН3-	H³CO, ≻	Н	R4 O	Н	Н
XA269	СН3-	H³CO, ≻ Ö	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н
XA270	снз-	C ₂ H ₅ O ¹ / ₂ /	Н	Н	Н	Н
XA271	CH3-	O C ₂ H ₅ O ,	Н	CH3-	Н	Н
XA272	СН3-	C ₂ H ₅ O y	Н	СН3СН2-	Н	Н
XA273	снз-	C ₂ H ₅ O y	Н	<u> </u>	Н	н
XA274	СН3-	C ₂ H ₅ O	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
XA275	снз-	C ₂ H ₅ O ^J	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н
XA276	снз–	C ₂ H ₅ O y	Н	Li.	Н	н
XA277	снз-	O C ₂ H ₅ O -	Н	7	Н	Н
XA278	снз-	O C ₂ H ₅ O -	Н	7	Н	Н
XA279	СН3-	O C ₂ H ₅ O ,	H	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
XA280	СН3-	O C ₂ H ₅ O ->-	H	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
XA281	СН3-	O C ₂ H ₅ O	н	× r	H ·	Н
XA282	СН3-	C ₂ H ₅ O -	Н	→	Н	н
XA283	снз-	C ₂ H ₅ O -	н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
XA284	снз-	C ₂ H ₅ O	Н		Н .	H
XA285	СН3-	O C ₂ H ₅ O	Н	· · ·	н	Н
XA286	СН3-	C ₂ H ₅ O 7	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н .	Н
XA287	снз-	O C ₂ H ₅ O ,,	Н	n-C8H17-	Н	Н
XA288	снз-	O C ₂ H ₅ O	Н	١ ١	Н	H
XA289	СН3-	O C ₂ H ₅ O	Н	Q	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA290	CH3-	O C ₂ H ₅ O ×	Н		Н	Н
XA291	CH3-	C ₂ H ₅ O ^H y	Н	Q-~~	Н	Н
XA292	снз-	C ₂ H ₅ O ,	н		н	н
XA293	снз-	C ₂ H ₅ O ^H >r	Н	\Diamond - \Diamond	Н	Н
XA294	СН3-	O C ₂ H ₅ O	Н		Н	H
XA295	CH3-	O C ₂ H ₅ O - >-	Н		Н	Н
XA296	СН3-	O C₂H₅O →	Н		Н	Н
XA297	CH3-	C ₂ H ₅ O y	Н	<u></u> -₹	н	Н
XA298	снз-	C ₂ H ₅ O Y	н	F {}	Н	Н
XA299	СН3-	O C₂H₅O →	н	<u></u>	н	H ,
XA300	СН3-	O C ₂ H ₅ O >	Н	F(-){	Н	н
XA301	СН3-	O C ₂ H ₅ O	Н	CI →	Н	н
XA302	CH3-	O C ₂ H ₅ O ,	Н	CI	Н	н
XA303	СН3-	O C ₂ H ₅ O ->-	H	CH	Н	Н
XA304	СН3-	O C ₂ H ₅ O ,	Н	Br ∰-{	Н	н
XA305	СН3-	O C ₂ H ₅ O -	Ĥ	Br.	Н	н
XA306	СН3-	C ₂ H ₅ O	Н	Br—{_}_{}	Н	Н
XA307	СН3-	C ₂ H ₅ O }	Н	CH ₃	Н	Н
XA308	СН3-	C ₂ H ₅ O y	Н	H ₃ C	Н .	H -
XA309	СН3-	O C ₂ H ₅ O 7	Н	H ₃ C-∕{_}	Н	Н
XA310	СН3-	O C ₂ H ₅ O -	Н	C ₂ H ₅ —{{}	Н	Н
XA311	СН3-	O C ₂ H ₅ O / y	Н	n-C ₃ H ₇ {}{	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA312	СН3-	O C ₂ H ₅ O ,	Н	n-C ₄ H ₉ —{_}_{}	Н	Н
XA313	СН3-	O C ₂ H ₅ O ' ₇	Н	OCH₃	Н	Н
XA314	снз-	O C ₂ H ₅ O / _{>} ,	Н		Н	н
XA315	СН3-	O C ₂ H ₅ O // r	Н	H ₃ CO-{}	Н	Н
XA316	CH3-	C ₂ H ₅ O ,	Н	C ₂ H ₅ O-{{}}	Н	Н
XA317	СН3-	C₂H₅O ,	Н	n-C ₃ H ₇ O-	Н	Н
XA318	снз-	O C ₂ H ₅ O -	Н	n-C ₄ H ₉ O-	Н	Н
XA319	СН3-	O C ₂ H ₅ O ,	н	NO ₂	Н	н
XA320	СН3-	O C ₂ H ₅ O /	Н	O ₂ N	Н	Н
XA321	СН3-	O C ₂ H ₅ O -	Н	O ₂ N-{	Н	Н
XA322	CH3-	C ₂ H ₅ O y	Н	CN	Н	Н
XA323	СН3-	C ₂ H ₅ O	Н	NC	Н	Н
XA324	СН3-	C ₂ H ₅ O >	Н	NC-{}-{	H -	Н
XA325	снз-	O C ₂ H ₅ O -	Н	NMe ₂	Н	Н
XA326	СН3-	C ₂ H ₅ O -	н	Me ₂ N	Н	н
XA327	CH3-	C ₂ H ₅ O ,	н	Me ₂ N-{	H.	Н
XA328	СН3-	C ₂ H ₅ O ·	Н		Н	Н
XA329	СН3-	C ₂ H ₅ O ·	Н		Н	Н
XA330	CH3-	C ₂ H ₅ O y	H		Н	Н
XA331	CH3-	O C ₂ H ₅ O ->-	Н		Н	Н
XA332	СН3-	O C ₂ H ₅ O	Н	O Pr	Н	H
XA333	СН3-	O C ₂ H ₅ O	Н	O برگ	н	Н

No.	R1	R2	R3	R4	R5	R6
XA334	снз-	0	н	O=\range\range	Н	н
XA335	снз–		н	Н	н	Н
XA336	CH3-	СН3СН2-	Н	Н	Н	н
XA337	снз-	/ \/\	Н	Н	Н	Н
XA338	СН3-	\	н	н	H	H
XA339	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	н	Н
XA340	CH3-	<u></u>	Н	Н	Н	Н
XA341	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н	н	H
XA342	снз-	7	Н	н	Н	Н
XA343	СН3-	^ \\	Н	Н	Н	н
XA344	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	Н	Н
XA345	СН3-	\ \\\\	Н	н	Н	Н
XA346	СН3-	7	Н	н	Н .	Н
XA347	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	н .	Н
XA348	CH3-		н	Н	н	н
XA349	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	н	н
XA350	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	H .	Н	Н ,	Н
XA351	CH3-	n-C8H17-	Н	H .	Н	H
XA352	СН3-		Н	Н	Н	Н
XA353	СН3-	Qu	Н	Н .	Н	Н
XA354	СН3-		Н	Н	Н	Н
XA355	CH3-		Н	Н	Н	н

No.	R1	R2	R3	R4	R5	R6
XA356	снз-	> →1	Н	Н	Н	Н
XA357	снз-	\Diamond - i	Н	H	н	Н
XA358	снз-		н	н	н	н
XA359	снз-		Н	н	н	Н
XA360	снз-	\bigcirc - \downarrow	Н	Н	Н	H
XA361	CH3-		H	Н	Н	Н
XA362	снз-		Н	H .	Н	н
XA363	снз-	_\m\\	н	Н	н	Н
XA364	СН3-	F —	Н	Н	н	Н
XA365	СН3-	F	н	Н	н	Н
XA366	снз-	F—	Н	Н	Н	Н
XA367	снз-	F(-)(н	н .	Н	Н
XA368	снз-	F—{_}m{	Н	Н	н	Н
XA369	СН3-	CI	Н	Н	Н	Н
XA370	снз-	CI →	н	Н	н	Н
XA371	снз-	CI-{_}-{	н	Н	н	Н
XA372	снз-	C⊢ ()—(Н	Н	Н	Н
XA373	СН3-	CH	Н	H .	H	Н
XA374	СН3-	Br — →	Н	Н	Н	Н
XA375	СН3-	Br.	Н	Н	Н	Н
XA376	снз-	Br—{	Н	Н	н	Н
XA377	СН3-	Br—{	Н	н	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA378	снз-	Br—€∑ııı∮	Н	Н	Н	Н
XA379	СН3-		н	Н	Н	Н
XA380	GH3-	<u></u> ;	Н	Н	н	Н
XA381	СН3-	<u> </u>	Н	Н	Н	н
XA382	CH3-	CH ₃	Н	Н	Н	H
XA383	СН3-	H ₃ C	Н	Н	Н	н
XA384	снз-	H ₃ C-{	н	Н	Н	Н
XA385	снз-	C ₂ H ₅ —{}	Н	Н	Н	Н
XA386	CH3-	n-C ₃ H ₇ —{_}-{	Н	Н	Н	Н
XA387	СН3-	n-C ₄ H ₉ —{}	Н	Н	Н	Н
XA388	СН3-	OH →	Н	H .	Н	Н
XA389	CH3-	HO	Н	Н	Н	Н
XA390	СН3-	HO-{	Н	H ,	Н	Н
XA391	СН3-	OCH ₃	Н	Н	Н	Н
XA392	CH3~	H ₃ CO	Н	Н	Н	Н
XA393	CH3-	H ₃ CO-{	Н	Н	н	Н
XA394	CH3-	H ₃ CO-{}	Н	Н	Н	Н
XA395	CH3-	H ₃ CO-	Н	H	Н	Н
XA396	СН3-	OC ₂ H ₅	Н	Н	Н	Н
XA397	CH3-		Н	Н	Н	Н
XA398	CH3-	C ₂ H ₅ O-{	Н	Н	Н	Н
XA399	CH3-	n-C ₃ H ₇ O-	Н	н	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA400	CH3-		Н	Н	Н	Н
XA401	CH3-	NO ₂	Н	Н	н	Н
XA402	снз-	O ₂ N	Н	н	Н	Н
XA403	СН3-	O ₂ N-{}	Н	Н	Н	Н
XA404	СН3-	CN	Н	H	H	Н
XA405	CH3-	NC	Н	Н	Н	Н
XA406	CH3-	NC-{}-{	Н	Н	Н	Н
XA407	СН3-	CF ₃	Н	Н	Н	Н
XA408	СН3-	F ₃ C —;	Н	H	Н	н
XA409	СН3-	F ₃ C-{}	н	Н	н .	Н
XA410	CH3-	COOH	Н	н	Н	н
XA411	CH3-	HOOC	Н	Н	Н	Н
XA412	СН3-	ноос-{_}-	Н	Н	Н	н
XA413	CH3-	CO₂Me	H	Н	Н	Н
XA414	СН3-	MeO ₂ C	H	Н	Н	н
XA415	СН3-	MeO ₂ C-{}	H ·	Н	Н	н
XA416	CH3-	CO₂Et	Н	Н	Н	Н
XA417	СН3-	EtO ₂ C	Н	Н	н	Н
XA418	СН3-	EtO ₂ C-_\	Н	Н	н	Н
XA419	СН3-	SMe	Н	Н	Н	H
XA420	СН3-	MeS —;	Н	Н	Н	Н
XA421	СН3-	MeS-{_}{	Н	Н	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA422	СН3-	SO₂Me	Н	Н	H	Н
XA423	СН3-	MeO ₂ S {	н	Н	Н	Н
XA424	снз-	MeO ₂ S-{}-{	н	н	н	Н
XA425	CH3-	NH ₂	Н	Н	Н	H
XA426	СН3-	H ₂ N	Н	Н	Н	H
XA427	CH3-	H_2N-	Н	н	Н	Н
XA428	снз-	NMe ₂	H	Н	Н	Н
XA429	снз-	Me ₂ N	н	Н	Н	Н
XA430	СН3	Me ₂ N-√∑	Н	н	Н	н
XA431	СН3-		H,	Н	Н	Н
XA432	СН3-	CN-<->	н	н	Н	Н
XA433	СН3		Н	Н	н	H
XA434	СН3-		Н	Н	Н	Н
XA435	СН3-	Ov-◆	Н	Н	Н	H
XA436	СН3-	N-{_}	Н	Н	Н	Н
XA437	снз–	O_N-	Н	н	н	Н
XA438	СН3-	O_N-{\right\}_	Н	Н	Н	Н
XA439	СН3-	o_N-{_}-}	Н	Н	Н	Н
XA440	СН3-	H ₃ CN N	Н	Н	Н	Н
XA441	СН3-	H₃CN_N-⟨	Н	н	Н	Н
XA442	CH3-	J J	Н	Н	Н	Н
XA443	СН3-	H ₃ C CH ₃	Н	Н	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA444	СН3-	CH ₃ H ₃ C-⟨/}	Н	н	Н	Н
XA445	СН3-	CH₃ → H₃C	Н	н	Н	Н
XA446	СН3-	CH ₃	Н	н	Н	Н
XA447	СН3	H ₃ C=\//=\{	H 	н	Н	Н
XA448	СН3-	H ₃ C H ₃ C	Н	н	Н	Н
XA449	СН3-	F_F	Н	н	н	jH∘
XA450	СН3-	F——F	Н	н	Н	Н
XA451	СН3-	F F	Н	н	н	H
XA452	CH3-	F F	Н	Н	Н	Н
XA453	CH3-	F————;	н	н	н	н
XA454	снз-	F	Н	Н	Н	Н
XA455	CH3-	CI_CI	Н	Н	Н	Н
XA456	CH3-	CI—CI	Н	н	H	Н
XA457	СН3-	CI	Н	Н	Н	Н
XA458	CH3-	CI CI	Н	н	Н	Н
XA459	CH3-	CI	Н	н	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA460	СН3-	CI	Н	Н	Н	Н
XA461	СН3-	H ₃ CO_OCH ₃	н	Н	Н	Н
XA462	CH3-	OCH₃ H₃CO-⟨□⟩→;	Н	Н	Н	Н
XA463	CH3-	OCH ₃ H ₃ CO	Н	Н	Н	Н
XA464	CH3-	OCH ₃ OCH ₃	Н	н	н	Н
XA465	CH3-	H₃CO— H₃CO—	Н	Н	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA466	СН3-	H₃CO H₃CO	Н	Н	Н	н
XA467	СН3-	F_OCH₃	н	Н	Н	Н
XA468	CH3-	OCH ₃ F-√	Н	Н	Н	Н
XA469	CH3-	OCH ₃	Н	Н	н	H .
XA470	СН3	OCH ₃	Н	Н	Н	Н
XA471	СН3-	OCH₃ F	Н	Н	Н	Н
XA472	СН3-	OCH ₃	Н	H	Н	Н
XA473	СН3-	H₃CO F—	,H	Н	Н	Н
XA474	СН3-	H₃CO F	H	H	н	Н
XA475	СН3-	H₃CO_F	н	н	Н	Н
XA476	СН3-	H₃CO-⟨\$\rightarrow\$	Н	н	Н	Н
XA477	СН3-	H₃CO F	н	Н	Н	Н
XA478	СН3-	Ę	Н	Н	Н	Н
XA479	CH3-	CI_OCH₃	Н	Н	Н	Н
XA480	CH3-		Н	Н	Н	Н
XA481	CH3-	OCH ₃	Н	Н	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA482	CH3-	OCH₃ Ci	Н	Н	Н	Н
XA483	СН3-	H₃CO CI—Ş	Н	н	Н	Н
XA484	CH3-	H₃CO CI	Н	Н	н	Н
XA485	СН3-	H₃CO_CI	Н	н	Н	Н
XA486	СН3-	CI H₃CO-⟨∑∕—}	Н	Н	Н	н
XA487	СН3-	Cl H₃CO	Н	Н	Н	Н

No.	Ri	R2	R3	R4	R5 ·	R6
XA488	CH3-	CI _	н	Н	Н	Н
XA489	CH3-	F_CH ₃	Н	Н	Н	Н
XA490	СН3-	' 🖤 '	н	н	Н	Н
XA491	СН3-	CH₃ F	н	н	Н	Н
XA492	снз-	CH ₃	н	н	Н	н
XA493	СН3-	H ₃ C F—	н	н	Н	Н
XA494	СН3-	H₃C F	Н	н	н	Н
XA495	СН3-	H ₃ C · F	H	н	Н	Н
XA496	СН3-	H₃C-⟨S	Н	н	н	Н
XA497	СН3-	H₃C F	Н	н	Н	Н
XA498	СН3-	F H₃C————————————————————————————————————	н	н	н	Н
XA499	СН3-	\(\sigma' \)	н	н	н	Н
XA500	СН3-	OCH ₃	Н	н	Н	Н
XA501	СН3-	OCH ₃	Н	н	н	Н
XA502	СН3-	OCH ₃ ⇒ Br	Н	н	н	Н
XA503	СН3-	H₃CO Br—√	Н	н	Н	н

No.	R1	R2	R3	R4	R5	R6
XA504	CH3-	H₃CO Br	Н	Н	н	Н
XA505	CH3-	~ ·	Н	Н	Н	H
XA506	CH3-	Br H₃CO-⟨¯¯ <mark>></mark>	Н	н	Н	Н
XA507	СН3-	Br → H ₃ CO	Н	Н	Н	H
XA508	CH3-	Br H₃CO-	Н	Н	Н	H
XA509	CH3-	H ₃ CO_}	Н	н ,	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA510	CH3-	OCH ₃	Н	Н	Н	Н
XA511	СН3-	CN-Cy→OCH ₃	Н	н	н	Н
XA512	CH3-	H ₃ CO >	Н	Н	Н	Н
XA513	CH3	H ₃ CO N—	Н	Н	Н	Н
XA514	CH3-	CN OCH3	Н	Н	Н	Н
XA515	CH3-	F—————————————————————————————————————	Н	Н	н	Н
XA516	CH3-	OCH ₃	Н	Н	Н	Н
XA517	CH3-	H ₃ CO-CF	Н	н	Н	Н
XA518	CH3-	OCH ₃ F—{ OCH ₃	Н	Н	Н	Н
XA519	CH3-	OCH ₃ H ₃ CO-{_}} OCH ₃	Н	Н	Н	Н
XA520	CH3-	CI—CI	Н	Н	Н	Н
XA521	CH3-	OCH ₃ CI—{ CI	Н	Н	Н	Н
XA522	CH3-	CI H₃CO-⟨_}; CI	н	н	н	Н
XA523	СН3-	OCH ₃ CI——— OCH ₃	Н	Н	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA524	СН3-	OCH ₃ H ₃ CO-\sqrt{3} OCH ₃	Н	Н	Н	Н
XA525	снз-	OCH ₃	Н	Н	н	Н
XA526	СН3-	H ₃ CO	Н	Н	Н	Н
XA527	СН3-	H ₃ CO-{_}-{_}-{}	Н	 н 	Н	Н
XA528	СН3-	OCH ₃ }	Н	н	н	Н
XA529	СН3-	H ₃ CO ,	Н	н	Н	Н
XA530	СН3-	H ₃ CO-{\rightarrow}-{\rightarrow}^\tau	Н	Н	Н	Н
XA531	СН3-	OCH3	Н	н	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA532	СН3-	H ₃ CO	Н	Н	Н	Н
XA533	CH3-	H ₃ CO-{}	Н	Н	Н	Н
XA534	СН3	F	н	Н	н	Н
XA535	СН3-	F	Н	Н	н	Н
XA536	СН3-	F-{_}-{_}-{_}-{_}-{_}-{_}-{_}-{_}-{_}{_}{_}	Н	н	Н	Н
XA537	СН3-	F \hat\tau\tau	Н	Н	Н	Н
XA538	СН3-	F	н	Н	H	Н
XA539	СН3-	F-(Н	н	Н	Н
XA540	СН3-		Н	н	Н	Н
XA541	CH3-		Н	н	Н	Н
XA542	CH3-	F-(-)-(-)	Н	н .	Н	Н
XA543	СН3-		Н	н .	Н	Н
XA544	СН3-	CC	Н	Н	Н	Н
XA545	СН3-	N H	Н	Н	Н	Н
XA546	СН3-	HN	Н	Н	Н	Н
XA547	СН3-	O - s	Н	Н	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA548	СН3-	0 × ×	Н	H		Н
XA549	СН3-	S	Н	Н	Н .	Н
XA550	СН3-	T _S	Н	H	Н	Н
XA551	СН3-		Н	Н	Н	Н
XA552	СН3-	HN S	Н	Н	Н	Н
XA553	СН3-	/=N HN.//	Н	Н	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA554	СН3-	/-N	Н	•	Н	Н
XA555	СН3-	O _N ,	Н	н	Н	Н
XA556	снз-		Н	Н	Н	Н
XA557	снз-	N-O	Н	Н	Н	н
XA558	снз-	SN	Н	Н	Н	Н
XA559	снз-	,	Н	Н	Н	Н
XA560	снз-	N-S	Н	Н	Н	Н
XA561	снз-	/=N O_/	Н	Н	Н	Н
XA562	снз-	C, i,	Н	н .	Н	н
XA563	СН3-	N Z	Н	Н	Н	Н
XA564	снз-	/=N S	Н	Н	Н	Н
XA565	СН3-	S	н	Н	Н	Н
XA566	СН3-	N , ,	Н	Н	Н	Н
XA567	СН3-	N [→]	Н.	Н	Н	Н
XA568	CH3-	N-	Н	н	Н	н
XA569	СН3-	<u>N</u>	Н	н	Н	Н
XA570	CH3-	N—₹	Н	Н	н	Н
XA571	CH3-	N_N_{	Н	Н	Н	н .
XA572	СН3-	N=	Н	Н	Н	Н
XA573	CH3-		Н	Н	Н	Н
XA574	СН3-		Н	Н	Н	Н
XA575	снз-		Н	Н	Н	Н

No.	R1	R2 .	R3	R4	R5	R6
	CH3-	パ 人せっ	н	Н	Н	Н
XA577	снз-	, CTN	Н	Н	Н	н
XA578	СН3	Ç,	Н	Н	Н	Н
XA579	снз-		Н	Н	Н	Н
XA580	снз-		Н	Н	Н	Н
XA581	снз-		Н	Н	Н	Н
XA582	снз-	(C)	Н	Н	Н	Н
XA583	СН3-	,CC)	Н	н	Н	Н
XA584	CH3-	Ç;	Н	Н	Н	Н
XA585	CH3-		Н	Н	Н	н
XA586	CH3-	CT.	Н	Н	Н	Н
XA587	CH3-		Н	Н	Н	Н
XA588	CH3-	"CIS	н	Н	Н	Н
XA589	СН3-	, CS	Н	Н	Н	Н
XA590	СН3-	Ţŝ	Н	Н .	Н	Н
XA591	СН3-		н	Н	Н	Н
XA592	CH3-	T'N	н	Н	Н	Н
XA593	CH3-	, The second sec	Н	Н	Н	Н
XA594	СН3-	,CTp	Н	Н	н	Н
XA595	СН3-	Ç;	Н	Н	Н	Н
XA596	CH3-	(C) N → N	Н	Н	Н	Н
XA597	СН3-	Ž,	Н	Н	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA598	СН3-	N N	Н	Н	H	Н
XA599	СН3-		Н	Н	Н	Н
XA600	снз-	N N	Н	Н	Н	Н
XA601	снз–	S N	Н	Н	Н	Н
XA602	снз-	¹ CIN	н	Н .	Н	H
XA603	снз-	Ş ^N ,	Н	н	Н	Н
XA604	снз-	(C) S	Н	Н	Н	Н
XA605	снз-	N S	Н	н	Н	н
XA606 .	СН3-	* TN	Н	Н	Н	Н
XA607	СН3-	, Is	Н	Н	H ·	Н
XA608	CH3-	Ç ^N _s	H	Н	Н	Н
XA609	СН3-		Н	Н	Н	Н
XA610	CH3-		Н	Н	Н	Н
XA611	CH3-	"CTD"	Н	Н	Н	Н
XA612	CH3-	, LION	Н	Н	Н	Н
XA613	CH3-	QTon	Н	Н	Н	Н
XA614	CH3-	OL'N	Н	Н	Н	Н
XA615	CH3-	Č N	Н	H .	н	Н
XA616	СН3-	"Clan	Н	Н	Н	Н
XA617	СН3-	, CTSN	Н	Н	Н	н
XA618	CH3-	ÇŢş ⁿ	Н	Н	Н	Н
XA619	CH3-	Ç;	Н	Н	н ,	н

No.	R1	R2	R3	R4	R5	R6
XA620	CH3-		Н	Н	Н	Н
XA621	СН3-		Н	Н	Н	Н
XA622	СН3-		Н	Н	Н	Н
XA623	CH3-	снз-	Н	CH3	Н	Н
XA624	снз-	СН3СН2-	Н	СН3	Н	H
XA625	снз-	<u></u>	Н	СН3	Н	Н
XA626	СН3-	\rangle \tau_1	н	СН3	Н	Н
XA627	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	СН3	Н	н
XA628	СН3	<u></u>	Н	СН3	Н	Н
XA629	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СН3	Н	Н
XA630	CH3-	7	Н	СН3	н	Н
XA631	СН3-	^ \\\	н	СН3	Н	н
XA632	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СН3	Н	Н
XA633	CH3-	Xx	Н	СН3	Н	H
XA634	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СН3	Н	Н
XA635	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СН3	Н	Н
XA636	СН3-		Н	СНЗ	Н	н
XA637	СН3-	^	Н	СН3	Н	H
XA638	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СН3	Н	Н
XA639	CH3-	n-C8H17-	Н	СНЗ	Н	Н
XA640	CH3-		Н	СНЗ	Н	Н
XA641	CH3-	Q	Н	СНЗ	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA642	CH3-	《个人	Н	СН3	Н	Н
XA643	снз-		Н	СН3	н	Н
XA644	СН3-		н	СН3	Н	Н
XA645	СН3-	\Diamond	Н	СН3	Н	Н
XA646	снз-		н	СН3	н	H H
XA647	снз-		н	СНЗ	H	Н
XA648	снз-		Н	СНЗ	Н	н
XA649	СН3-	<u></u>	Н	СНЗ	Н	н
XA650	СН3-		Н	СНЗ	Н	Н
XA651	СН3-	__\!\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СН3	Н	Н
XA652	CH3-	F	Н	снз	Н	Н
XA653	CH3-	F	Н	снз	Н	Н
XA654	CH3-	F-(-){	Н	СНЗ	H	Н
XA655	СН3-	F-(-)(Н	снз	н	Н
XA656	CH3-	F——	Н	снз	Н	Н
XA657	CH3-	CI →	н	СНЗ	Н	Н
XA658	СН3-	CI	Н	СНЗ	Н	Н
XA659	СН3-	C├ 	Н	СН3	Н	Н
XA660	СН3-	C - -{}	Н	СНЗ	Н	н
XA661	СН3-	C⊢∕	Н	СНЗ	Н	Н
XA662	СН3-	Br	Н	СНЗ	н	Н
XA663	СН3-	Br.	Н	CH3	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA664	СН3-	Br—⟨	Н	CH3	Н	Н
XA665	СН3-	Br—	Н	СН3	Н	Н
XA666	снз-	Br——	Н	СН3	Н	Н
XA667	CH3-	□	Н	СН3	Н	Н
XA668	снз-		н	СН3	Н	н
XA669	СН3-	├ ──}	Н	сн3	Н	Н
XA670	CH3-	CH ₃	н	СН3	н	н
XA671	CH3-	H₃C —∤	Н	СН3	н	Н
XA672	CH3-	H ₃ C-{{}	Н	СН3	Н	н
XA673	CH3-	C ₂ H ₅ {	Н	СНЗ	Н	Н
XA674	CH3-	n-C ₃ H ₇ {}-{	Н	СНЗ	Н	Н
XA675	CH3-	n-C ₄ H ₉ —{}_{{}}	Н	СНЗ	Н	Н
XA676	CH3-	ОН	Н	СНЗ	Н	Н
XA677	CH3-	HO	Н	СН3	Н	Н
XA678	CH3-	HO-{	Н	СНЗ	Н	Н
XA679	СН3-	OCH ₃	Н	СНЗ	_E H	Н
XA680	CH3-	H₃CO —}	Н	СН3	Н	Н
XA681	CH3-	H ₃ CO-{}{	Н	СН3	н	Н
XA682	CH3-	H ₃ CO-{_>-{	Н	СН3	Н	Н
XA683	CH3÷	H ₃ CO-	Н	СНЗ	Н	Н
XA684	СН3-	OC ₂ H ₅	Н	СНЗ	Н	Н
XA685	СН3-	C ₂ H ₅ O	Н	СНЗ	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA686	CH3-	C ₂ H ₅ O-{}{	Н	СНЗ	Н	Н
XA687	CH3-	n-C ₃ H ₇ O-	Н	СН3	Н	H
XA688	CH3-	n-C ₄ H ₉ O-	Н	СН3	Н	Н
XA689	СН3-	NO ₂	Н	СН3	Н	Н
XA690	CH3-	O ₂ N	Н	СНЗ	Н	Н
XA691	CH3-	O ₂ N-{}	Н	снз	Н	Н
XA692	CH3-	CN	н	СНЗ	Н	Н
XA693	CH3-	NC 	н	СНЗ	Н	Н
XA694	CH3-	NC-{}	н	СНЗ	Н	Н
XA695	СН3-	CF ₃	н	снз	Н	Н
XA696	снз-	F ₃ C	н	СНЗ	Н	Н
XA697	СН3-	F ₃ C-{}	н	СНЗ	Н	Н
XA698	СН3-	COOH	н	снз	н	Н
XA699	СН3-	HOOC	н	СНЗ	Н	Н
XA700	СН3-	ноос-{>}	Н	СНЗ	Н	Н
XA701	СН3-	CO ₂ Me	Н	снз	Н	Н
XA702	СН3-	MeO ₂ C —;	Н	снз	н	Н
XA703	СН3-	MeO ₂ C-	Н	СН3	н .	Н
XA704	СН3-	CO ₂ Et	Н	снз	Н	Н
XA705	СН3-	EtO ₂ C	Н	СНЗ	Н	Н
XA706	CH3-	EtO ₂ C-{	Н	СНЗ	Н	Н
XA707	СН3-	SMe	Н	СНЗ	н	Н

No.	R1	R2	R3	R4	R5	R6
XA708	CH3-	MeS	Н	CH3	Н	Н
XA709	СН3-	MeS-{_}-{	Н	СН3	H	Н
XA710	снз-	SO₂Me	Н	СН3	Н	н
XA711	СН3-	MeO ₂ S	Н	СН3	Н	Н
XA712	снз-	MeO ₂ S-{}_{}	Н	CH3	н	H
XA713	СН3-	NH ₂	Н	CH3	Н	Н
XA714	СН3-	H ₂ N	Н	СН3	Н	Н
XA715	CH3-	H_2N	н	СН3	Н	Н
XA716	CH3-	NMe ₂	Н	СНЗ	Н	н
XA717	CH3-	Me ₂ N	н	снз	Н	Н
XA718	СН3-	Me ₂ N-{	н	СНЗ	Н	Н
XA719	CH3-	Cn- \	Н	СН3	Н	н
XA720	CH3-	_N-<	н	снз	н	н
XA721	CH3-	_\N-\\	н	СН3	Н	н
XA722	CH3-	___________________	Н	СН3	Н	Н
XA723	СН3	N-Q	Н	СНЗ	Н	Н
XA724	CH3-	N-(Н	СН3	Н	н
XA725	CH3-	O_N-{_>	Н	СН3	Н	Н
XA726	CH3-	<u>○</u> N- <u></u>	Н	СНЗ	Н	Н
XA727	CH3-	O_N-{_}-{	н	СНЗ	Н	Н
XA728	CH3-	H ₃ CN N-	Н	СН3	н	Н
XA729	снз-	H3CN N-	н	СН3	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA730	СН3-		Н	СНЗ	н	Н
XA731	СН3-	H ₃ C CH ₃	Н	СНЗ	Н	Н
XA732	СН3-	CH ₃ H ₃ C−√	Н	СН3	н	Н
XA733	CH3-	CH₃ H₃C	H	СН3	Н	Н
XA734	СН3-	CH₃ CH₃	Н	СНЗ	Н	Н
XA735	СН3-	H ₃ C	Н	СН3	Н	Н
XA736	СН3-	H ₃ C H ₃ C	Н	СН3	Н	Н
XA737	CH3-	F_F	Н	СН3	Н	Н
XA738	СН3	F—F	Н	СНЗ	Н	Н
XA739	СН3-	F F	Н	СНЗ	н	Н
XA740	СН3-	F	Н	СН3	н	Н
XA741	СН3-	F——	Н	СНЗ	н	Н
XA742	СН3-	F	Н	СНЗ	н	Н
XA743	СН3-	CI_CI	Н	СНЗ	н	Н
XA744	СН3-	CI CI	Н	СН3	н	н

No.	R1	R2	R3	R4	R5	R6
XA745	СН3-	CI	Н	СН3	Н	Н
XA746	СН3-	CI	Н	СН3	Н	Н
XA747	СН3-	CI CI	Н	СН3	Н	Н
XA748	CH3-	CI	Н	снз	Н	Н
XA749	СН3-		Н	СН3	Н	Н
XA750	СН3-		Н	СН3	Н	Н
XA751	СН3-	OCH₃ → H₃CO	Н	СН3	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA752	СН3-	OCH ₃	Н	СНЗ	Н	Н
		OCH ₃				
XA753	CH3-	H ₃ CO-{}	Н	СН3	Н	Н
XA754	СН3	H₃CO H₃CO	Н	СНЗ	Н	H
XA755	СН3-	F_OCH ₃	Н	снз	н	Н
XA756	СН3-	OCH ₃	Н	снз	н	Н
XA757	СН3-	OCH ₃	Н	СНЗ	н	Н
XA758	CH3-	OCH₃ F——	Н	СНЗ	н	Н
XA759	СН3	OCH ₃	Н	СНЗ	Н	Н
XA760	СН3	OCH ₃	Н	СН3	Н	Н
XA761	СН3-	H₃CO F—	Н	СН3	Н	Н
XA762	СН3-	H ₃ CO F	Н	СН3	н	Н
XA763	СН3-	H₃CO_F	н	СН3	н	Н
XA764	CH3-	H₃CO-⟨¯¯⟩	н	СН3	Н	Н
XA765	СН3-	F H₃CO	Н	СНЗ	Н	Н
XA766	СН3-	H ₃ CO−√	Н	СНЗ	н	Н

No.	R1	R2	R3	R4 .	R5	R6
XA767	СН3-	CI_OCH ₃	Н	СН3	н	Н
XA768	CH3-		Н	СН3	Н	Н
XA769	CH3-	OCH ₃	Н	СНЗ	Н	Н
XA770	CH3-	OCH ₃	Н	СНЗ	Н	Н
XA771	CH3-	H₃CO CI—	Н	снз	Н	Н
XA772	CH3-	H ₃ CO Cl	Н	СНЗ	Н	Н
XA773	CH3-	H₃CO_CI	Н	СНЗ	H ,	Н

No.	R1	R2	R3	R4	R5	R6
XA774	СН3-	CI	Н	СН3	Н	Н
XA775	СН3-	CI H ₃ CO	Н	СН3	Н	Н
XA776	СН3-		н	СНЗ	н	Н
XA777	СН3-	F CH ₃	Н	сн3	Н	н
XA778	СН3-	CH₃ F—{}	Н	СН3	Н	н
XA779	СН3	CH₃ F	Н	СНЗ	н	н
XA780	СН3-	CH₃ F	Н	СН3	Н	Н
XA781	СН3-	H ₃ C F—_}	Н	СН3	Н	Н
XA782	СН3-	H ₃ C F	н	СН3	Н	Н
XA783	СН3-	H₃C_F →	Н	СН3	Н	Н
XA784	СН3-	H ₃ C-⟨¯¯ <mark></mark> F	Н	СН3	Н	Н
XA785	снз-	F H₃C	Н	СН3	Н	Н
XA786		F, H₃C-_	Н	СН3	Н	Н
XA787	снз-	Br_OCH₃	Н	снз	Н	Н
XA788	СН3-	OCH₃ Br—{	Н	сн3	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA789	СН3-	Br	н	СН3	Н	Н
XA790	СН3	OCH₃ Br	Н	СН3	Н	Н
XA791	СН3-	2. 📗	н	СНЗ	Н	Н
XA792	СН3-	H ₃ CO Br	Н	СН3	Н	Н
XA793	CH3-	H ₃ CO_Br	Н	сн3	Н	н
XA794	CH3-	Br H₃CO-⟨SH	Н	СН3	Н	Н
XA795	СН3-	H ₃ CO	Н	СН3	Н	Н

No.	R1		R3	R4	R5	R6
XA796	СН3-	Br H ₃ CO-	Н	СН3	Н	Н
XA797	снз-	H ₃ CO >	Н	GH3	Н	Н
XA798	CH3-	OCH3 ○N-⟨□>	Н	СН3	Н	Н
XA799	СН3-	N-√_>OCH3	Н	онз	Н	Н
XA800	СН3-	H ₃ CO	Н	СН3	Н	н
XA801	СН3-	H ₃ CO N-\\\	Н	СН3	Н	Н
XA802	СН3-	OCH ₃	Н	СН3	Н	Н
XA803	СН3	F-{\}_{F}	Н	СН3	н	Н
XA804	СН3-	OCH ₃ F-{_}} F	Н	СНЗ	Н	Н
XA805	CH3-	H₃CO-{_}-{} F	Н	СНЗ	н	Н
XA806	CH3-	OCH ₃ F-{}} OCH ₃	Н	СНЗ	Н	Н
XA807	CH3-	OCH ₃ H ₃ CO-{}} OCH ₃	Н	СНЗ	Н	Н
XA808	CH3-	CI—CI	Н	СНЗ	Н	Н
XA809	CH3-	OCH ₃ CI—{} CI	Н	снз	н	Н
XA810	CH3-	CI H₃CO-⟨_}} CI	Н	снз	н	Н

No.	R1	R2	R3	R4	R5	R6
XA811	СН3-	OCH ₃ CI————————————————————————————————————	н	СН3	Н	Н
XA812	СН3-	OCH ₃ H ₃ CO-{_}-} OCH ₃	Н	CH3	Н	Н
XA813	СH3-	OCH ₃	Н	СН3	Н	Н
XA814	СН3-	H ₃ CO	Н	снз	Н	Н
XA815	СН3-	H ₃ CO-{_}-{_}-{_}-{_}-{_}-{_}-{_}-{_}-{_}-{_}	Н	СН3	Н	н
XA816	СН3-	OCH ₃ ½	Н	СН3	Н	Н
XA817	СН3-	H ₃ CO	Н	СН3	н	н

No.	R1	R2	R3	R4	R5	R6
XA818	СН3-	H₃CO-⟨	Н	СНЗ	Н	Н
XA819	CH3-	OCH ₃	Н	СН3	н	Н
XA820	СН3-	H ₃ CO	Н	СНЗ	Н	Н
XA821	снз-	H₃CO- ⟨ _	Н	СНЗ	н	Н
XA822	СН3	F	Н	СНЗ	Н	Н
XA823	снз-	F	н	СН3	Н	Н
XA824	СН3-	F-{\}-{\}-{\}-\{	Н	СН3	Н	Н
XA825	СН3-	F \\	Н	СНЗ	н	Н
XA826	СН3-		Н	СН3	Н	н
XA827	СН3-	F-{\}-{\}^\tag{\}	Н	СНЗ	Н	н
XA828	CH3-	∅	Н	СНЗ	Н	н
XA829	СН3-		Н	СНЗ	Н	Н
XA830	СН3	F-()-()	Н	СНЗ	Н	Н
XA831	СН3-		Н	СНЗ	н	Н
XA832	СН3-	CC	Н	СНЗ	н	Н

No.	R1	R2	R3	R4	R5	R6
XA833	СН3-	N H H	Н	CH3	Н	Н
XA834	снз-	CYNH NH	Н	сн3	Н	Н
XA835	СН3-	~	Н	СН3	Н	Н
XA836	СН3	'CTP	Н	СН3	Н	Н
XA837	СН3-	, CYN	Н	СН3	Н	Н
XA838	СН3-	Ç	Н	СН3	Н	Н
XA839	СН3-		Н	СНЗ	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA840	снз-	(T)	Н	СНЗ	Н	Н
XA841	снз–	Ŭ;	н	CH3	Н	Н
XA842	СН3-		н	CH3	Н	н
XA843	СН3-	,CT	Н	СНЗ	Н	н
XA844	СН3-	Ţ?	Н	СН3	Н	H
XA845	снз-		Н	СН3	H	Н
XA846	снз-		Н	СН3	Н	H·
XA847	СН3-		Н	СН3	Н	Н
XA848	снз-	TT3	Н	СН3	Н	Н
XA849	снз-	,CIS	н	сн3	Н .	Н
XA850	СН3-	ÇTŞ	Н	СНЗ	Н	н
XA851	СН3-		Н	СНЗ	н	Н
XA852	СН3-		Н	СН3	H	Н
XA853	СН3-	L. OLIV	н	снз	н	Н
XA854	СН3-	, CTN	н	СН3	Н	Н
XA855	СН3-	ÇT,	Н	СН3	Н	н
XA856	СН3-	(CTN)→1	Н	СНЗ	Н	Н
XA857	СН3-	Ž,	Н	СН3	Н	Н
XA858	СН3-	, ON N	Н	СНЗ	Н	Н
XA859	СН3-		Н	СНЗ	Н	Н
XA860	СН3-	Ž _N	Н	СН3	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA861	CH3-	⁵ CIN	Н	СН3	Н	Н
XA862	СН3-	¹,√ÇJ°,	Н	СН3	Н	Н
XA863	CH3-	Ş,	Н	СН3	Н	Н
XA864	СН3-	O's	Н	СНЗ	н	Н
XA865	СН3-	N S	Н	СН3	H	H
XA866	СН3-	/ CI'S	Н	СНЗ	Н	Н
XA867	СН3-	ı, DNS	Н	СН3	Н	Н
XA868	СН3-	ÇI,	Н	СН3	Н	Н
XA869	СН3-		н	СН3	н	H
XA870	СН3-	Ĩ,	Н	СН3	Н	Н
XA871	СН3-	, CC3,	н	СН3	H	н
XA872	СН3-	,CTN	Н	СН3	н	Н
XA873	СН3-	Ţ?	Н	СН3	Н	н
XA874	СН3-	O's N	н	СН3	Н	Н
XA875	СН3-	Ĩ,	Н	CH3	Н	н
XA876	СН3-	. Ozn	Н	СН3	Н	Н
XA877	СН3-	, CTSN	Н	СН3	Н	Н
XA878	СН3-	Ç ş	Н	CH3	Н	Н
XA879	CH3-	<u> </u>	Н	СН3	н	Н
XA880	CH3-	,CC	Н	CH3	Н	Н
XA881	CH3-		Н	СНЗ	Н	Н
XA882	СН3-	Ğ,	Н	СН3	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA883	СН3-	СН3-	н		Н	H ·
XA884	снз-	СН3СН2-	н		Н	Н
XA885	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н		Н	н
XA886	снз-	\	Н		н	н
XA887	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н		Н	H
XA888	СН3-	__\`\	Н		н	н
XA889	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н		н	Н
XA890	СН3-	7	Н	Qu	H	Н
XA891	СН3-	^ \\\	Н	Q	Н	Н
XA892	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н		Н	Н
XA893	CH3-	\ \\\\	Н		Н	Н
XA894	CH3-	7	Н		Н	Н
XA895	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н		Н	Н
XA896	СН3-		Н		Н	Н
XA897	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н		Н	Н
XA898	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Q.,	Н	Н
XA899	CH3-	n-C8H17-	Н ,		Н	Н
XA900	СН3-		Н		Н	Н
XA901	СН3-		Н		Н	Н
XA902	СН3-		Н		Н	н
XA903	CH3-		Н		Н	Н
XA904	GH3-	<u></u>	Н		H	Н

No.	R1	R2	R3	R4	R5	R6
XA905	СН3-	\Diamond	Н	Q	н	Н
XA906	CH3-		Н	Q	Н	н
XA907	CH3-		Н		Н	Н
XA908	СН3-		Н	Q	Н	н
XA909	CH3-		Н		Н	H
XA910	CH3-		Н		Н	Н
XA911	CH3-	<u></u>	Н		Н	Н
XA912	CH3-	F	Н		Н	Н
XA913	CH3-	F -	н		Н	Н
XA914	СН3-	F-(н		н	Н
XA915	CH3-	F—(>	Н		Н	Н
XA916	СН3-	F——	Н	Q	Н	Н
XA917	СН3-	CI →	Н	Q	Н	Н
XA918	СН3-	CI	Н	Q	Н	Н
XA919	CH3-	C⊢ (_)—{	Н	Q	Н	Н
XA920	СН3-	CI—(Н	Qr	Н	Н
XA921	СН3-	CH	н	Q	Н	Н
XA922	СН3-	Br	Н	Q	н	Н
XA923	СН3-	Br.	н	Q	Н	Н
XA924	CH3-	Br—{_}{	Н	Q	н	Н
XA925	СН3-	Br—	Н	Qi	Н	Н
XA926	CH3-	Br—{	Н	Qr	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA927	CH3-	<u>-</u>	Н		Н	Н
XA928	CH3-		Н		Н	н
XA929	CH3-	-	Н		Н	н
XA930	СН3-	CH₃	Н		Н	н
XA931	CH3-	H₃C {}	H		Н	н
XA932	снз-	H ₃ C-{}	Н		Н	н
XA933	CH3-	C ₂ H ₅ {}{	Н		Н	Н
XA934	CH3-	n-C ₃ H ₇ —{}	Н		Н	Н
XA935	CH3-	n-C ₄ H ₉ —{}	Н		Н	н
XA936	СН3-	OH ————————————————————————————————————	н		Н	н
XA937	CH3-	HO ————————————————————————————————————	н		н	Н
XA938	CH3-	HO-{	Н		Н	Н
XA939	СН3-	OCH ₃	Н		н	Н
XA940	СН3-	H₃CO —∤	Н		н	Н
XA941	СН3-	H ₃ CO-{{}	Н		Н	Н
XA942	СН3-	H₃CO- ()	Н		н	Н
XA943	СН3-	H ₃ CO-	н		Н	н
XA944	СН3-	OC ₂ H ₅	Н		Н	Н
XA945	СН3-	C ₂ H ₅ O	Н		Н	H .
XA946	СН3-	C ₂ H ₅ O-{}	Н	Q	Н	Н
XA947	CH3-	n-C ₃ H ₇ O-{}-{	Н		Н	Н
XA948	СН3-	n-C ₄ H ₉ O-{}	Н	Q	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA949	CH3-	NO ₂	н		Н	н
XA950	CH3-	O ₂ N	Н		н	Н
XA951	CH3-	02N-{}	Н	Q	Н	Н
XA952	СН3-	CN →	Н		Н	Н
XA953	снз-	NC 	Н		Н	H
XA954	снз-	NC-{}	Н		Н	Н
XA955	CH3-	CF ₃	Н	Q	Н	Н
XA956	СН3-	F ₃ C △	H		Н	н .
XA957	СН3-	F ₃ C-{}_{}	Н		Н	Н
XA958	СН3-	COOH	н		н	н
XA959	СН3-	HOOC	Н		Н	Н
XA960	СН3-	HOOC-{_}-{	н		н	Н
XA961	СН3-	CO ₂ Me	н		Н	н
XA962	снз-	MeO ₂ C —∤	н		Н	Н
XA963	снз-	MeO ₂ C-\bigsim_\}-\{	н		н	Н
XA964	СН3-	CO ₂ Et	Н		Н	Н
XA965	СН3-	EtO ₂ C	Н		Н	Н
XA966	СН3-	EtO ₂ C-{}	Н		н	Н
XA967	СН3-	SMe	Н		Н	н
XA968	СН3-	MeS	Н		Н	Н
XA969	СН3-	MeS-{}-{	Н		н	Н
XA970	СН3-	SO₂Me	Н		н	Н

No.	R1	R2	R3	R4	R5	R6
XA971	CH3-	R2 MeO ₂ S	Н		Н	Н
XA972	СН3-	MeO ₂ S-{}	Н		Н	н
XA973	снз-	NH ₂	Н	Q	Н	Н
XA974	снз-	H ₂ N	Н	Qu	Н	н
XA975	СН3-	H_2N	Н	Qu	н	H
XA976	СН3-	NMe ₂	Н	Qu	Н	Н
XA977	СН3-	Me ₂ N	Н		Н	Н
XA978	СН3-	Me ₂ N-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н		н	Н
XA979	CH3-	N-\(\sigma\)	н		Н	Н
XA980	СН3-	CN-€	н		Н	Н
XA981	CH3-	N-{_}-}	н		Н	н
XA982	СН3-		н		Н	н
XA983	СН3-	_N-<	Н		Н	Н
XA984	СН3-	N-()-1	Н		Н	н
XA985	СН3-	O_N-(_)	Н		Н	Н
XA986	CH3-	O_N-(Н		Н	Н
XA987	CH3-	O_N-{_}}	Н		Н	Н
XA988	CH3-	H ₃ CN_N_	Н		Н	Н
XA989	CH3-	H ₃ CN_N-	Н	Q	Н	Н
XA990	СН3-	H3CN_N-{}-{	Н	Qr	Н	н
XA991	СН3-	H₃C CH₃	Н	Q	Н	Н
XA992	CH3-	H ₃ C-{\bigcirc}-{\}	Н		Н	Н

No.	R1	R2	R3	R4	R5	R6
XA993	СН3	CH ₃ H ₃ C	Н		Н	Н
XA994	СН3-	CH₃ CH₃	Н		н	Н
XA995	СН3-	H ₃ C	Н		Н	Н
XA996	СН3-	H₃C H₃C	Н		Н	Н
XA997	СН3-	FF	Н		н	Н
XA998	снз-	F—F	Н		Н	Н
XA999	СН3-	F F	Н		Н	Н
XA1000	СН3-	F F	Н		Н	Н
XA1001	СН3-	F——	Н		Н	Н
XA1002	СН3-	F	Н		н	Н
XA1003	СН3-	CI_CI	Н		н	Н
XA1004	СН3-	CI—CI	н		Н	Н

No.	RI	R2	R3	R4	R5	R6
XA1005	СН3-	CI	Н	Q	Н	Н
XA1006	СН3-	CI	Н		н	Н
XA1007	СН3-	CI	Н		н	Н
XA1008	СН3-	CI	Н		Н	H
XA1009	СН3-	H₃CO_OCH₃	Н		H	Н
XA1010	СН3-	OCH ₃ H ₃ CO-√}	Н	Q	н	Н
XA1011	СН3-	OCH ₃	н	٩	н	Н
XA1012	СН3-	OCH ₃	Н	Q	Н	н
XA1013	СН3-	H ₃ CO	Н		н	н
XA1014	СН3-	H ₃ CO	Н	Q.	н	Н

No.	R1	R2	R3	R4	R5	R6
XA1015	СН3-	F_OCH ₃	Н	Q	н	Н
XA1016	СН3-	OCH ₃	Н	Q	Н	Н
XA1017	СН3-	OCH ₃	Н		н	Н
XA1018	СН3-	OCH ₃	Н		н	Н
XA1019	СН3-	OCH ₃	н		н	Н
XA1020	CH3-	OCH₃ F	Н		Н	Н
XA1021	СН3-	H ₃ CO F	Н	Q	н	Н
XA1022	СН3-	H ₃ CO F	Н	٩	Н	Н
XA1023	CH3-	H ₃ CO_F	Н	Q	н	Н
XA1024	СН3-	H₃CO-⟨S	Н	Q	Н	Н
XA1025	СН3-	F H₃CO	Н		Н	Н
XA1026	СН3-	H ₃ CO	Н		Н	Н

No.	R1	R2	R3	R4	R5	150
XA1027		CI_OCH ₃	Н		Н	R6
XA1028	СН3-	OCH ₃	Н		Н	Н
XA1029	CH3-	OCH ₃	н		н	Н
XA1030	СН3-	OCH ₃	н		Н	Н
XA1031	СН3-	H ₃ CO	H ·		н	Н
XA1032	СН3-	H ₃ CO	Н		Н	Н
XA1033	СН3-	H ₃ CO_CI	Н	Q	Н	Н
XA1034	СН3-	H ₃ CO-€	Н	Q	Н	Н
XA1035	СН3-	H ₃ CO	Н	Q	Н	Н
XA1036	СН3-	CI H₃CO-⟨¯¯)—{	Н	Q	Н	H

No.	R1	R2	R3	R4	R5	R6
XA1037	снз-	F_CH ₃	Н	Q	Н	H .
XA1038	СН3-	F—{CH ₃	Н		Н	Н
XA1039	СН3-	CH ₃	Н		н	Н
XA1040	CH3-	CH ₃	Н		н	Н
XA1041	CH3-	H ₃ C F——}	Н		н	Н
XA1042	СН3-	H ₃ C F	Н		н	Н
XA1043	СН3-	H ₃ C F	Н		Н	Н
XA1044	CH3-	H ₃ C-{F	н		н	Н
XA1045	СН3-	H ₃ C	Н		н	Н
XA1046	CH3-	H ₃ C	н		н	Н
XA1047	СН3-		Н		Н	H
XA1048	СН3-	OCH₃ Br—₹	н	٠,	Н	н

No.	R1	R2	R3	R4	R5	R6
XA1049	СН3-	OCH ₃ Br	Н		Н	Н
XA1050	снз-	OCH ₃ Br	Н		н	Н
XA1051	СН3-	H₃CO Br—	Н	Q	н	Н
XA1052	СН3-	H ₃ CO Br	Н	Q r	Н	Н
XA1053	СН3	H ₃ CO_Br	н	Q	Н	н
XA1054	CH3-		Н	Q	Н	Н
XA1055	CH3-	Br → H₃CO	Н	Q	Н	Н
XA1056	CH3-	Br H ₃ CO	н	Q	Н	Н
XA1057	СН3-	H ₃ CO	Н	Qx	н	Н
XA1058	СН3-	OCH ₃	Н	Q	н	Н

No.	R1	R2	R3	R4	R5	R6
XA1059	СН3-	_N-{_}OCH	3н		Н	Н
XA1060	CH3-	H ₃ CO	Н		Н	Н
XA1061	CH3-	H ₃ CO	Н	Q	Н	Н
XA1062	СН3-	OCH ₃	Н		н	Н
XA1063	CH3-	F——}	H .		н	Н
XA1064	СН3-	OCH ₃ F————————————————————————————————————	Н		н	н
XA1065	СН3-	H ₃ CO-{=}F	Н		Н	н
XA1066	СН3-	OCH ₃	Н		н	Н
XA1067	СН3-	H ₃ CO-CH ₃ OCH ₃	Н	Q	Н	Н
XA1068	СН3-	CI	Н		Н	Н
XA1069	СН3-	OCH ₃	Н		Н	Н
XA1070	СН3-	CI H₃CO-⟨}} CI	Н	Q,	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1071	СН3-	OCH ₃ CI—∑→ OCH ₃	Н	Q.	Н	Н
XA1072	СН3-	OCH ₃ H ₃ CO-{_}-} OCH ₃	Н		Н	Н
XA1073	CH3-	OCH ₃	Н		н	Н
XA1074	СН3-	H ₃ CO	Н	Q	H	Н
XA1075	СН3-	H₃CO- ⟨_ }-{_}-{	Н		Н	Н
XA1076	СН3-	OCH ₃ }·	H	Q	н	н
XA1077	СН3-	H ₃ CO	Н		Н	Н
XA1078	CH3-	н₃со-⟨_>-(H	Q	Н	Н
XA1079	СН3-	OCH ₃	Н		Н	Н
XA1080	CH3-	H ₃ CO	Н		H	Н

No.	R1	R2	R3	R4	R5	R6
XA1081	CH3-	H₃CO-⟨	Н		Н	Н
XA1082	СН3-	∅ - 0 -₁	Н		Н	Н
XA1083	СН3-	<u></u>	Н	Qu	Н	Н
XA1084	СН3-	F-()-{)-{	н	Qu	Н	Н
XA1085	СН3-	₫-₫`	н	Q	Н	H
XA1086	СН3-		Н	Q	Н	Н
XA1087	CH3-		Н	Q	Н	Н
XA1088	снз-	Q-\(\oldsymbol{\O}\)	Н	Q	Н	Н
XA1089	CH3	<u>\$</u>	Н	Q	Н	Н
XA1090	CH3-		н	Qr	Н	Н
XA1091	CH3-		н .	Q r	Н	н
XA1092	СН3-		н	Q v	Н	Н
XA1093	CH3-	CT}-ĭ	Н	Q.	Н	Н
XA1094 ·	CH3-		H ·		Н	Н
XA1095	СН3-		Н		Н	Н
XA1096	СН3-	, CN	Н		Н	н
XA1097	СН3-	,CT _N	Н		Н	н
XA1098	CH3-	ŶŸ.	Н		Н	н
XA1099	CH3-		Н	Q	Н	Н
XA1100	CH3-		Н		Н	н
XA1101	СН3-	Ö	Н		Н .	Н
XA1102	СН3-	TO:	Н		Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1103	CH3-		Н	Q	H	Н
XA1104	CH3-	Çr?	Н	Qu	Н	н
XA1105	CH3-		н	Q.,	Н	н
XA1106	СН3-		Н	Qu	Н	н
XA1107	СН3-	Ţ.	H	Q.	Н .	Н
XA1108	СН3-	TOIS	Н	Q	Н	Н
XA1109	снз-	, CTS	н		н .	Н
XA1110	СН3-	ÇŢ\$	Н	Q.	н	Н
XA1111	CH3-	CT,	Н		н	Н
XA1112	СН3-	Ç	Н		Н	Н
XA1113	СН3-		Н		Н	Н
XA1114	СН3-	, CTN	Н		н	Н
XA1115	CH3-	Ç, L	Н		Н	Н
XA1116	СН3-	C Z Z T	н	Or	н	Н
XA1117	CH3-	N N	Н		·H	Н
XA1118	СН3-	Y N	Н		Н	Н
XA1119	СН3-	(I)-i	Н		Н	Н
XA1120	CH3-	N N	Н		Н	Н
XA1121	CH3-	r CL	Н		Н	Н
XA1122	CH3-	, IN	Н		Н	Н
XA1123	СН3-	Ţ,	Н		н	Н
XA1124	СН3-	CI'S	Н		н	н

No.	R1	R2	R3	R4	R5	R6
XA1125	СН3-	~~	Н		Н	Н
XA1126	снз-	'TN'	Н		Н	Н
XA1127	снз-	, IS	Н	Q	н	Н
XA1128	снз-	T's	Н	Q	Н	Н
XA1129	снз-		Н	Q.	Н	H H
XA1130	снз-		Н	Q	Н	Н
XA1131	снз-		Н	Q	Н	н
XA1132	СН3-	,CTòN	Н	Q	Н	Н
XA1133	СН3-	Ĉ.	Н	Q	H	Н
XA1134	СН3-	O'S ^N	Н	Q	Н	Н
XA1135	СН3-	T _s N	Н		Н	Н
XA1136	СН3-	TSN.	Н	Q	н	Н
XA1137	CH3-	Y CTSN	Н	Q	Н	Н
XA1138	СН3-	Ž.s.	H		Н	Н
XA1139	СН3	Ç.	H		н	Н
XA1140	CH3-		Н		Н	Н
XA1141	CH3		н		н	н
XA1142	CH3-		Н		Н	Н
XA1143	CH3-	сн3-	Н	Ů,	Н	Н
XA1144	CH3-	CH3CH2-	Н	Ů,	Н	Н
XA1145	СН3-	∕ ∕\	Н	Ů,	Н	Н
XA1146	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Ŷ,	н	Н

No.	R1	R2	R3	R4	R5	R6
XA1147	СН3-	\\\	Н	, , , , , , , , , , , , , , , , , , ,	Н	Н
XA1148	СН3-	人人	Н	Ů,	Н	Н
XA1149	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	OL 3	Н	H
XA1150	снз-	7	Н) J	H	Н
XA1151	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Ŷ,	Н	H
XA1152	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н		Н	Н
XA1153	снз-	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	O A	Н	Н
XA1154	снз-	7	Н	O A	н	н
XA1155	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Ŷ,	н	Н
XA1156	СН3-		Н	Ŷ,	Н .	н
XA1157	СН3-	^ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Ŷ,	Н	Н
XA1158	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Ŷ,	Н	Н
XA1159	СН3-	n-C8H17-	Н) J	Н	Н
XA1160	СН3-	21	Н) J	Н	Н
XA1161	СН3-		Н	O A	Н	Н
XA1162	СН3-		Н	<u></u>	Н	Н
XA1163	СН3-		Н	O _A	н	Н
XA1164	СН3-	\longrightarrow	н	<u></u>	н	Н
XA1165	СН3-	\Diamond	Н		Н	Н
XA1166	СН3	$\bigcirc \vdash$	Н	0	Н	н
XA1167	CH3-	\bigcirc	Н	O. A.	Н	Н
XA1168	снз-		Н	,	Н	н

No.	R1	R2	R3	R4	R5	R6
XA1169	СН3-		н	Ŷ,	Н	н
XA1170	снз-		Н	Ŷ,	н	Н
XA1171	снз-		Н	O _y	Н	н
XA1172	снз-	F	Н	Ŷ,	Н	н
XA1173	СН3-	<u></u>	Н	Ŷ,	Н	н
XA1174	снз-	F-{_}-{	Н	Ŷ,	н	Н
XA1175	снз-	F-{}	Н) J	н	Н
XA1176	СН3-	F———	Н	O S	Н	Н
XA1177	СН3-	CI	Н	Å,	Н	н
XA1178	СН3-	CI	Н) J	Н	н
XA1179	CH3-	C├ 	Н	O	Н	Н
XA1180	CH3-	C⊢ ()—{	Н	Ŷ,	н	н
XA1181	CH3-	C⊢{_}ı{	Н	Ŷ,	Н	Н
XA1182	CH3-	Br	Н	Ŷ,	н	н
XA1183	CH3-	Br.	Н	, i	Н	н
XA1184	CH3-	Br—{	Н	Ŷ,	Н	н
XA1185	CH3-	Br— (Н	Ŷ,	Н	н
XA1186	CH3-	Br—⟨〉···﴿	Н	,	Н	Н
XA1187	CH3-	C	Н) J	Н	Н
XA1188	CH3-		Н	<u>}</u> ,	Н	н
XA1189	CH3-	-	Н	Ů,	Н	Н
XA1190	CH3-	CH ₃	Н	Å,	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1191	СН3-	R2 H ₃ C —}	Н	O A	Н	Н
XA1192	СН3-	H ₃ C-{{}	Н	O	Н	Н
XA1193	СН3-	C ₂ H ₅ —{}	Н	O A	Н	Н
XA1194	СН3-	n-C ₃ H ₇ {	н	l _y ,	Н	Н
XA1195	СН3-	n-C ₄ H ₉ —{{}}	Н	Å,	Н	H
XA1196	СН3-	OH	Н) V	н	н
XA1197	СН3-	HO HO	Н	<u></u>	Н .	Н
XA1198	CH3-	HO-{\bigcirc}{	Н	0	Н	Н
XA1199	СН3-	OCH ₃	Н	0	Н	Н
XA1200	СН3-	H ₃ CO —}	Н	0	Н	Н
XA1201	СН3-	H₃CO-⟨}-{	Н		Н	Н
XA1202	СН3-	H₃CO-{\rightarrow}-{\rightarrow}-{\rightarrow}-{\rightarrow}	Н	<u> </u>	Н	Н
XA1203	СН3-	H ₃ CO-{\bigs\nu\	Н	<u></u>	Н	Н
XA1204	снз-		Н	Ŷ,	Н	Н
XA1205	снз–	C ₂ H ₅ O	Н .	Ŷ,	Н	Н
XA1206	снз-	C ₂ H ₅ O-{{{ }}}	Н	Ŷ,	Н	Н
XA1207	СН3-	n-C ₃ H ₇ O-	Н	Ŷ,	Н	н
XA1208	СН3-		Н	O A	Н	Н
XA1209	СН3-	NO ₂	Н	Ů,	Н	н
XA1210	CH3-	O ₂ N →	Н		н	Н
XA1211	CH3-		Н	<u>L</u> y	Н	Н
XA1212	СН3-	CN	Н	Ŷ,	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1213	CH3-	NC	н	<u></u>	Н	Н
XA1214	CH3-	NC-{}	Н	Ŷ,	Н	Н
XA1215	СН3-	CF ₃	Н	<u> </u>	Н	Н
XA1216	CH3-	F ₃ C	Н	Ŷ,	Н	Н
XA1217	СН3-	F ₃ C-{\bigcirc}-{\bigcirc}	Н	Ŷ,	Н	H
XA1218	CH3-	COOH	Н	Ŷ,	Н	Н
XA1219	СН3-	HOOC	Н	Ŷ,	Н	Н
XA1220	СН3-	HOOC-{	Н	Ŷ,	Н	Н
XA1221	СН3-	CO ₂ Me	Н.) 	Н	Н
XA1222	СН3-	MeO ₂ C	н	Ŷ,	Н	Н
XA1223	СН3-	MeO ₂ C-	н	Ŷ,	Н	Н
XA1224	СН3-	CO ₂ Et	н		Н	Н
XA1225	СН3-	EtO ₂ C	н	Ŷ,	Н	Н
XA1226	СН3-	EtO ₂ C-{}	н		н	Н
XA1227	СН3-	SMe	н	Ů,	Н	Н
XA1228	СН3-	MeS —}	н	Å,	Н	Н
XA1229	СН3-	MeS-{	Н		н	Н
XA1230	СН3-	SO ₂ Me	н	<u> </u>	Н	н
XA1231	СН3-	MeO ₂ S	Н	À,	H	Н
XA1232	СН3-	MeO ₂ S-{}	Н) Jy	Н	Н
XA1233	CH3-	NH ₂ →	Н	<u></u>	Н	Н
XA1234	СН3-	H ₂ N	Н	O A	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1235	СН3-	H_2N	н	<u></u>	Н	Н
XA1236	СН3-	NMe ₂	Н	Å,	Н	Н
XA1237	СН3-	Me ₂ N —	Н	Î,	Н	Н
XA1238	CH3-	Me ₂ N	Н	Å,	Н	Н
XA1239	СН3-	CN-√S	Н	Ŷ,	н	Н
XA1240	СН3-		Н	O _y ,	Н	Н
XA1241	СН3-		Н	<u></u>	Н	Н
XA1242	СН3-	N-	Н	O _y	н	Н
XA1243	СН3-	_N-__	Н	Î,	Н	н
XA1244	СН3-	N-{}	Н	Ŷ,	Н	Н
XA1245	CH3-		Н	Î,	Н	Н
XA1246	CH3-	<_N-<	Н	Å,	Н	Н
XA1247	CH3-	O_N-{_}-;	Н	Ŷ,	Н	Н
XA1248	CH3-	H ₃ CN N—	Н	Î,	Н	Н
XA1249	CH3-	H ₃ CN N-	Н	Î,	Н .	Н

No.	R1	R2	R3	R4	R5	R6
XA1250	СН3-	H₃CN_N-{_}-{	Н	<u></u>	Н	Н
XA1251	СН3-	H ₃ C_CH ₃	Н	<u></u>	Н	Н
XA1252	CH3-	CH ₃ H ₃ C-⟨∑)—{	Н	Î,	Н	Н
XA1253	СН3-	CH ₃ H ₃ C	Н	Î,	Н	Н
XA1254	СН3-	CH ₃ CH ₃	Н	Ŷ,	Н	Н
XA1255	СН3-	H ₃ C H ₃ C-{}	Н		Н	Н
XA1256	СН3-	H₃C ——; H₃C	Н	<u> </u>	Н	Н

No.	R1	R2	R3	R4	R5	R6
		F F		Q		
XA1257	CH3-		Н	Ŷ,	Н	Н
XA1258	СН3-	F—	Н	Ŷ,	Н	Н
XA1259	СН3-	F F	н	Ŷ,	Н	Н
XA1260	СН3-	F ·	Н	Å,	Н	Н
XA1261	СН3-	F—	Н	Ŷ,	Н	Н
XA1262	СН3-	F F	Н	Ŷ,	Н	Н
XA1263	СН3-	CI_CI	Н	Ŷ,	Н	н
XA1264	CH3-	CI—CI	Н	Ŷ,	Н	Н
XA1265	СН3-	CI	Н	Å,	Н	Н
XA1266	СН3-	CI CI	Н	Î,	Н	Н
XA1267	СН3-	CI————	Н	Ŷ,	Н	Н
XA1268	СН3-	CI	Н	Î,	Н	Н
XA1269	CH3-	H ₃ CO_OCH ₃	Н	Ŷ,	н	Н
XA1270	CH3-	OCH ₃	Н	l _y ,	Н	Н
XA1271	CH3-	OCH ₃ H ₃ CO	Н	Î,	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1272	СН3~	OCH ₃ OCH ₃	Н	<u>}</u> ,	Н	Н
XA1273	СН3-	H ₃ CO H ₃ CO →	Н	<u></u>	Н	Н
XA1274	снз-	H₃CO H₃CO	Н	Ŷ,	Н	.H
XA1275	снз	F_OCH ₃	Н	l _y	Н	Н
XA1276	СН3-	OCH ₃	H	Ŷ,	Н	Н
XA1277	СН3-	OCH₃ F—	Н	<u></u>	Н	Н
XA1278	СН3-	OCH ₃	Н	Î,	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1279	СН3-	OCH ₃	Н	Ŷ,	Н	Н
XA1280	CH3-	OCH ₃	Н	Å,	Н	Н
XA1281	CH3-	H₃CO F—√	Н	Å,	Н	Н
XA1282	СН3-	H₃CO F	Н	Ŷ,	Н	Н
XA1283	СН3	H₃CO_F	Н	Î,	Н	Н
XA1284	СН3-	H₃CO-⟨\$\frac{F}{}	Н	<u>}</u> ,	Н	Н
XA1285	СН3-	H₃CO F	Н		н	Н
XA1286	СН3-	F H₃CO-⟨	Н	Ŷ,	Н	Н
XA1287	СН3-	CI_OCH₃ →	Н	Î,	Н	Н
XA1288	СН3-	OCH ₃	Н	Ĵ,	Н	Н
XA1289	СН3-	ci C	Н	Î,	Н	Н
XA1290	СН3-	OCH₃ CI	н	Î,	Н	Н
XA1291	СН3-		Н	Ŷ,	Н	Н ,
XA1292	СН3-	CI	Н	À _g ,	Н	Н
XA1293	СН3-	H₃CO_CI	Н	Å _f	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1294	СН3-	H ₃ CO-CI	Н	L,	Н	Н
XA1295	СН3	CI H ₃ CO	Н	A _g ,	Н	Н
XA1296	снз-	CI H₃CO-⟨¯¯ <mark>></mark> →{	Н	Å,	н	Н
XA1297	СН3-	F_CH ₃	Н	L _y ,	Н	Н
XA1298	СН3-	CH ₃ F—√}	Н	Ŷ,	Н	Н
XA1299	СН3-	CH ₃	Н	Ŷ,	Н	Н
XA1300	CH3-	CH₃ F	Н	Î,	Н	Н

	Int	Tno	100	15.	1	
No.	R1	R2	R3	R4	R5	R6
XA1301	СН3-	H ₃ C	Н	<u></u>	H	Н
XA1302	CH3-	H ₃ C F	Н	Î,	Н	Н
XA1303	CH3-	H₃C_F	н	Î,	Н	Н
XA1304	СН3-	H ₃ C-\frac{F}{}	Н	Ŷ,	Н	Н
XA1305	СН3-	H ₃ C	Н	Ŷ,	Н	Н
XA1306	СН3-	H ₃ C—→	Н	Ŷ,	Н	Н
XA1307	СН3-	Br_OCH₃	Н	<u>}</u> ,	Н	Н
XA1308	CH3-	OCH ₃	Н	Î,	Н	Н
XA1309	СН3-	OCH₃ Br	Н	Î,	н	H
XA1310	СН3-	OCH ₃ ⇒ Br	Н	Ŷ,	н	Н
XA1311	CH3-		Н	Ĵ,	Н	Н
XA1312	СН3-	H ₃ CO Br	Н	Ĵ,	Н	Н
XA1313	СН3-	H ₃ CO_Br	Н	Ĵ,	Н	Н
XA1314	СН3-	H ₃ CO-⟨SH	Н	Ŷ,	н	Н
XA1315	СН3-	Br H₃CO	Н	Ĵ.,	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1316		Br H₃CO →	н	<u></u>	Н	Н
XA1317	СН3-	H ₃ CO }	Н	Ŷ,	н	н
XA1318	СН3-	OCH ₃	Н	Î,	Н	Н
XA1319	СН3-	N-√_>OCH3	н	Î,	Н	Н
XA1320	СН3-	H ₃ CO \rightarrow N	Н	Î,	Н	Н
XA1321	CH3-	H ₃ CO N-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	<u>,</u>	н	Н
XA1322	СН3-	OCH₃	Н	Ŷ,	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1323	СН3-	F——}	Н	, s	Н	Н
XA1324	СН3-	OCH ₃ F—{_}; F	Н	À _f .	Н	Н
XA1325	CH3-	H ₃ CO-{\bigset} F	Н	Î,	н	Н
XA1326	СН3-	OCH ₃ F-\(\sum_{\}\) OCH ₃	Н	Å,	н	Н
XA1327	СН3-	H ₃ CO-C->-> OCH ₃	Н	Ŷ,	Н	Н
XA1328	СН3-	CI—CI	Н	<u>L</u> ,	Н	Н
XA1329	СН3-	OCH ₃ CI—{ CI	Н	Ŷ,	Н	Н
XA1330	СН3-	CI H₃CO-⟨}; CI	Н	Ŷ,	Н	Н
XA1331	СН3-	OCH ₃ CI—() OCH ₃	Н	L _y	Н	Н
XA1332	СН3-	OCH ₃ H ₃ CO-{_}-{ OCH ₃	н	Î,	Н	Н
XA1333	СН3-	OCH ₃	Н	<u>L</u> g	Н	Н
XA1334	СН3-	H ₃ CO	н	Î,	Н	Н
XA1335	СН3-	H ₃ CO-<}-{_}-{_}-{_}-{_}-{_}-{_}-{_}-{_}-{_}-	Н	l _y ,	Н	Н
XA1336	CH3-	OCH ₃ }	Н	Î,	Н	Н
XA1337	СН3	H ₃ CO	Н	O _y ,	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1338	СН3-	H ₃ CO-{\(\)	Н	Î,	Н	Н
XA1339	CH3-	OCH ₃	Н	Î,	Н	Н
XA1340	СН3	H ₃ CO	Н	Ŷ,	Н	Н
XA1341	СН3-	H ₃ CO-	Н	Ĵ,	н	Н
XA1342	СН3-	F ———	Н	Ĵ,	Н	Н
XA1343	СН3-	F.	Н	Î,	Н	Н
XA1344	СН3-	F-\	Н	Ĵ _y	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1345	СН3-	₫	н	<u></u>	Н	Н
XA1346	СН3-		Н		н	Н
XA1347	снз-		Н) }	Н	Н
XA1348	СН3-		H		Н	Н
XA1349	снз-		Н	<u></u>	н	H
XA1350	снз-		Н		Н	Н
XA1351	СН3-		Н		Н	Н
XA1352	снз-	CCT	Н	0	Н	Н
XA1353	СН3-	ĈŢ <mark>X</mark> H	Н		н .	Н
XA1354	СН3-	IZ Y	Н		Н	Н
XA1355	СН3-		Н	<u></u>	н	Н
XA1356	СН3-	, C	Н	<u></u>	Н	Н
XA1357	снз-	, CT	Н	<u> </u>	Н	Н
XA1358	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	<u></u>	Н	Н
XA1359	снз-		Н	Ŷ,	Н	Н
XA1360	снз-		Н	Ŷ,	Н	Н
XA1361	СН3-		н	Ŷ,	Н	Н
XA1362	снз-	· (C)	н	<u></u>	Н	Н
XA1363	СН3-	, (CT)	Н	Ŷ,	Н	Н
XA1364	СН3-	Ç.	Н	Ŷ,	Н	Н
XA1365	СН3-		Н	Ŷ,	Н	Н
XA1366	снз–		Н	Ŷ,	Н	Н

No.	R1	R2	R3	R4 .	R5	R6
XA1367	CH3-		Н) Ly	Н	Н
XA1368	снз-	TOS	Н	O .	н	н .
XA1369	CH3-	,CIS	Н	Û,	Н	Н
XA1370	снз-		н) Ly	Н	н
XA1371	СН3-		Н	Ŷ,	Н	Н
XA1372	СН3-		Н	Ŷ,	Н	Н
XA1373	СН3-	L'AZZ	н	O A	Н	Н
XA1374	СН3-	i, N H	Н	, ,	Н	н
XA1375	СН3	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	0	н	Н
XA1376	СН3-	(C) ZH ZH ZH ZH ZH ZH ZH ZH ZH ZH	Н) Jy	Н	Н
XA1377	СН3-	;	Н	, y	Н	Н
XA1378	СН3-		Н	<u></u>	Н	Н
XA1379	СН3-	() ^N ,	Н	Ŷ,	Н	Н
XA1380	СН3-	Š. S.	н	<u>\</u>	Н	Н
XA1381	СН3-	• 0	Н		Н	Н
XA1382	СН3-	, CI	Н	OL,	Н	Н
XA1383	СН3-	ÇI ^N	н		Н	н
XA1384	СН3-	() s ^N -t	н		Н	Н
XA1385	CH3-	Ţ, N,	Н	<u></u>	Н	Н
XA1386	СН3-	, CI's	Н		Н	Н
XA1387	СН3-	ζŪ ^N S	н	<u></u>	Н	Н
XA1388	CH3-	Çİ,	Н	Å,	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1389	СН3-	CT?N	Н		Н	Н
XA1390	СН3-		Н		Н	Н
XA1391	СН3-	PCDN	Н	L _y	Н	Н
XA1392	СН3-	, CTON	н	l ,	Н	н
XA1393	СН3-	Ž.	н	Å,	Н	Н
XA1394	СН3-	OT N	н	À,	Н	Н
XA1395	СН3	ÜŢġN	н) 	Н	Н
XA1396	СН3-	, CIN	Н	<u></u>	Н	Н
XA1397	СН3-	'\C\SN	Н		Н	Н
XA1398	СН3-	ČŽ,	Н	04,	Н	н
XA1399	СН3-	Ţ?	Н	Ů,	Н	Н
XA1400	CH3-	, (C)	Н	Ů,	Н	Н
XA1401	СН3-	· CD	Н	<u></u>	Н	Н
XA1402	СН3-	Ö.	Н	O	Н	Н
XA1403	CH3-	СН3-	СН3	Н	Н	Н
XA1404	СН3-	СНЗСН2-	СН3-	Н	Н	Н
XA1405	СН3-	∕ ∖\\	СН3-	Н	Н	Н
XA1406	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	CH3-	H .	Н	Н
XA1407	СН3-	\\\ \\	СН3-	Н	Н	Н
XA1408	СН3-	人、	СН3-	Н	н	Н
XA1409	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	СН3-	Н	Н	Н
XA1410	CH3-	7'\	СН3-	Н	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1411	CH3-	△ ✓✓∖\	СН3	н		
			UH3-	П	Н	Н
XA1412	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	СН3-	Н	н	Н
XA1413	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	снз-	Н	Н	Н
XA1414	СН3-	7	снз	Н	Н	Н
XA1415	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	снз-	Н	Н	Н
XA1416	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	снз-	Н	н	н
XA1417	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	СН3-	Н	Н	Н
XA1418	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	СН3-	Н	Н	Н
XA1419	СН3-	n-C8H17-	CH3-	Н	Н	н
XA1420	CH3-		СН3-	Н	Н	Н
XA1421	СН3-		CH3	Н	Н	H
XA1422	CH3-		СН3-	Н	Н	Н .
XA1423	СН3-		СН3-	Н	Н	Н
XA1424	СН3-	\longrightarrow	СН3-	Н	Н	Н
XA1425	снз-	\Diamond	СН3-	н	Н	Н
XA1426	снз–		СН3-	Н	Н	Н
XA1427	СН3-		СН3-	Н	Н ,	Н
XA1428	СН3-	$\bigcap_{i=1}^{n}$	СН3-	Н	Н	Н
XA1429	СН3-		CH3-	Н	Н	Н
XA1430	СН3-		СН3-	Н	Н	Н
XA1431	СН3	⊘ m{	СН3-	н	Н	Н
XA1432	СН3-	F {	CH3-	Н	Н	Н

No.	R1	R2	R3	R4	R5	Inc
VA 1 400	21.0	Ę			- No	R6
XA1433	CH3-	<u></u>	CH3-	Н	Н	H
XA1434	CH3-	F-{_}}	СН3-	Н	н	Н
XA1435	снз-	F-{_}-{	снз-	н	Н	Н
XA1436	снз-	F-__\!	СН3-	Н	н	Н
XA1437	СН3-	CI →	СН3-	Н	Н	н
XA1438	CH3-	CI	СН3-	Н	Н	Н
XA1439	СН3-	C⊢ { }	СН3-	н	H	Н
XA1440	СН3-	C⊢ (_)→	СН3-	Н	Н	Н
XA1441	снз-	CH	СН3-	Н	Н	Н
XA1442	СН3-	Br ∰-{	СН3-	Н	Н	Н
XA1443	CH3-	Br.	СН3-	Н	н	Н
XA1444	СН3-	Br─∰-{	CH3-	Н	н	н
XA1445	СН3-	Br—{}	СН3-	н	Н	Н
XA1446	снз-	Br—{	СН3-	н	Н	Н
XA1447	СН3-		СН3-	Н	Н	Н
XA1448	CH3-		CH3-	Н	Н	Н
XA1449	CH3-	├ ──┼	СН3	Н	н	н
XA1450	СН3-	CH₃	СН3-	Н .	Н	Н
XA1451	СН3-	H ₃ C	СН3-	н	Н	Н
XA1452	СН3-	H ₃ C-{{}}	снз-	Н	Н	Н
XA1453	CH3-	C ₂ H ₅ —{	СН3-	Н	Н	Н
XA1454	CH3-	n-C₃H ₇ {}-{	СН3-	Н	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1455	СН3-	n-C ₄ H ₉ —{{}	CH3-	Н	Н	Н
XA1456	CH3-	OH OH	CH3-	Н	Н	Н
XA1457	СН3-	HO ———	СН3-	Н	Н	Н
XA1458	СН3-	HO-{\bigs_}	снз-	Н	Н	н
XA1459	CH3-	OCH₃	CH3-	Н	Н	Н
XA1460	CH3-	H₃ĈO <u></u> }—{	СН3-	Н	Н	Н
XA1461	CH3-	H₃CO-⟨}~;	СН3~	Н	Н	н
XA1462	СН3-	H₃CO- ()—(СН3-	Н	Н	Н
XA1463	СН3-	H ₃ CO-{_}\!\	СН3-	Н	Н	Н
XA1464	СН3-	OC ₂ H ₅	СН3-	Н	Н	Н
XA1465	СН3-	C ₂ H ₅ O	СН3-	н	Н	н
XA1466	СН3-	C ₂ H ₅ O-{	СН3-	Н	Н	Н
XA1467	СН3-	n-C ₃ H ₇ O-	CH3	Н	н	H
XA1468	СН3-	n-C ₄ H ₉ O-	CH3-	Н	н	Н
XA1469	CH3-	NO ₂	СН3-	Н	Н	н
XA1470	CH3-	O ₂ N	снз-	Н	Н	Н
XA1471	СН3-	O ₂ N-{	СН3-	Н	Н	Н
XA1472	СН3-	CN	СН3-	Н .	Н	Н
XA1473	СН3-	NC \{\}	снз-	Н	Н	Н
XA1474	CH3-	NC-{}	СН3-	Н	Н	Н
XA1475	снз-	NH ₂	СН3-	Н	Н	Н
XA1476	CH3-	H ₂ N →	снз-	Н	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1477	СН3-	H_2N-	СН3-	Н	Н	Н
XA1478	CH3-	NMe ₂	CH3-	н .	н	Н
XA1479	СН3-	Me ₂ N —}	снз-	Н	Н	Н
XA1480	CH3-	Me ₂ N-(T)	снз-	Н	Н	Н
XA1481	CH3-	\(\n_\)	снз-	Н	Н	Н
XA1482	CH3-	□N-□>	снз-	Н	н	Н
XA1483	CH3-		снз-	Н	Н	Н
XA1484	СН3-	N-S	СН3-	Н	Н	н
XA1485	CH3-	_\-_\\\\	СН3-	Н	Н	Н
XA1486	СН3-	N-{_}-{	CH3-	Н	н	Н
XA1487	СН3-	O_N_	СН3-	Н	н	Н
XA1488	СН3-	○ N-()	СН3-	Н	н	Н
XA1489	СН3-	O_N-{_}}	снз-	Н	н	Н
XA1490	CH3-	H ₃ CN N-	СН3-	Н	н	Н
XA1491	CH3-	H ₃ CN_N-{_}	СН3-	Н	Н	Н
XA1492	СН3-	H ₃ CN N-{_}	СН3-	H	Н	н
XA1493	СН3-	OCH ₃	СН3-	Н	Н	Н
XA1494	СН3-	OCH ₃	CH3-	Н	Н	Н
XA1495	СН3-	OCH ₃	CH3-	Н	Н .	Н
XA1496	СН3-		СН3-	Н	Н	Н
XA1497	СН3-	OO'r	CH3-	н	Н	Н
XA1498	CH3-	CH3-	н	Н	СН3-	Н

No.	R1	R2	R3	R4	R5	R6
	СН3-	СН3СН2-	Н	н	СН3-	Н
XA1500	СН3-	<u>/</u> \\	Н	Н	СН3-	Н
XA1501	снз-	77	Н	Н	СН3-	Н
XA1502	снз-	√ √\	Н	Н	СН3-	Н
XA1503	СН3-	人、	н	Н	СН3-	Н
XA1504	СН3-	~~``	Н	Н	СН3-	H.
XA1505	СН3-	7'	Н	Н	снз-	Н
XA1506	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	СН3-	Н
XA1507	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	СН3-	Н
XA1508	СН3-	Xx	Н	Н	СН3-	Н
XA1509	СН3-	7	Н	Н	СН3-	Н
XA1510	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	СН3-	Н
XA1511	СН3-		Н	Н	СН3-	Н
XA1512	СН3-	^_^\	Н	Н	СН3-	Н
XA1513	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	СН3-	Н
XA1514	CH3-	n-C8H17-	Н	Н	СН3-	Н
XA1515	СН3-		Н	Н	СН3-	Н
XA1516	СН3-	Q	Н	Н	СН3-	Н
XA1517	снз-		Н	Н	СН3-	Н
XA1518	СН3-	O~~	Н	Н	СН3-	H
XA1519	СН3-	\rightarrow	Н	Н	СН3-	Н
XA1520	СН3-	· ♦-1	Н	Н	СН3-	Н

No.	R1	R2	R3	R4	R5	R6
XA1521	СН3-		Н	Н	CH3-	н
XA1522	СН3-		Н	Н	СН3-	Н
XA1523	СН3-		Н	Н	СН3-	Н
XA1524	СН3-		Н	Н	СН3-	Н
XA1525	СН3-		Н	н	СН3-	н ,
XA1526	СН3-	<u></u>	Н	Н	СН3-	Н
XA1527	СН3-	F	Н	Н	СН3-	Н
XA1528	СН3-	<u></u>	Н	н	СН3	н
XA1529	СН3-	F-(Н	н	СН3-	Н
XA1530	СН3-	F(>(Н	н	СН3-	Н
XA1531	СН3-	F—C>m{	Н	Н	снз-	н
XA1532	СН3-	CI	н	Н	СН3-	Н
XA1533	СН3-	CĪ →	Н	н	снз-	Н
XA1534	СН3-	C⊢ (Н	Н	СН3-	н
XA1535	СН3-	c⊢ (_ >−!	Н	н	снз-	Н
XA1536	CH3-	C III	Н	Н	СН3-	Н
XA1537	СН3-	Br	Н	н	снз-	Н
XA1538	CH3-	Br	Н	н .	снз-	Н
XA1539	СН3-	Br—⟨}	Н	Н	СН3-	Н
XA1540	CH3-	Br—{	Н	Н	онз-	Н
XA1541	СН3-	Br————	Н	Н .	снз-	Н
XA1542	СН3-		Н	Н	СН3-	Н

No.	R1	R2	R3	R4	R5	R6
XA1543	CH3-	<u></u>	Н	Н	CH3-	Н
XA1544	снз-	├	Н	н	СН3-	Н
XA1545	CH3-	CH ₃	Н	н	СН3-	н
XA1546	снз-	H ₃ C	н	н	СН3	H.
XA1547	снз-	H ₃ C-{}	Н	н	СН3-	Н
XA1548	СН3-	C_2H_5 —{	Н	Н	СН3-	Н
XA1549	СН3-	n-C ₃ H ₇ {_}}{	Н	Н	СН3-	Н
XA1550	снз-	n-C ₄ H ₉ —{_}_{}	Н	Н	CH3-	Н
XA1551	СН3-	OH →	Н	Н	CH3-	Н
XA1552	СН3-	HO ———	Н	н .	СН3-	Н
XA1553	СН3-	HO-{\backsquare}	Н	Н	CH3-	Н
XA1554	СН3	OCH₃	Н	Н	СН3-	Н
XA1555	снз-	H ₃ CO	Н	Н	CH3-	Н
XA1556	СН3-	H ₃ CO-{_}-{	Н	Н	СН3-	Н
XA1557	СН3-	H ₃ CO-{}	Н	Н	CH3-	Н
XA1558	СН3-	H ₃ CO-{	Н	Н	CH3-	Н
XA1559	СН3-	OC ₂ H ₅	Н	Н	CH3-	Н
XA1560	СН3-	C ₂ H ₅ O	Н	Н	СН3-	Н
XA1561	CH3-	C ₂ H ₅ O-{	Н	Н	СН3-	Н
XA1562	СН3-	n-C ₃ H ₇ O-	Н	Н	СН3-	н
XA1563	CH3-		Н	Н	CH3-	Н
XA1564	снз-	NO ₂	Н	н	CH3-	Н

No.	R1	R2	R3	R4	R5	R6
XA1565	СН3-	O ₂ N	Н	Н	СН3-	Н
XA1566	СН3-	O_2N-	Н	Н	СН3-	н
XA1567	снз-	CN	н	Н	снз-	Н
XA1568	СН3-	NC _\	Н	Н	СН3-	Н
XA1569	СН3-	NC-{}	Н	Н	СН3-	H
XA1570	СН3-	NH ₂	Н	Н	CH3-	Н
XA1571	CH3-	H ₂ N	Н	H	СН3-	H
XA1572	CH3-	H_2N-	Н	Н	СН3-	Н
XA1573	СН3-	NMe ₂	Н	Н	CH3-	Н
XA1574	СН3-	Me ₂ N	Н	Н	СН3	Н
XA1575	СН3-	Me ₂ N-√	Н	Н	СН3-	Н
XA1576	СН3-		Н	Н	CH3-	н
XA1577	снз-	CN-	Н	Н	CH3-	Н
XA1578	снз-	_N-{_}-1	Н	Н	CH3-	Н
XA1579	снз-		Н	Н	CH3-	Н
XA1580	снз-	_N-<	Н	Н	CH3-	Н
XA1581	снз-	_N-_}\	Н	Н	СН3-	Н
XA1582	СН3-	< <u></u> N-√	Н	Н	СН3-	Н
XA1583	CH3-	○ N- ()	H .	Н	СН3-	Н
XA1584	СН3-	O_N-{_}-;	Н	Н	СН3-	н
XA1585	СН3-	H ₃ CN_N-	Н	Н	СН3-	н
XA1586	СН3-	H³CN_N-⟨\$\right\r	Н	Н	CH3-	Н

No.	R1	R2	R3	R4.	R5	R6
XA1587	CH3-	H3CN_N-{_}}	Н	Н	CH3-	н
XA1588	СН3-	OCH ₃	Н	Н	СН3-	Н
XA1589	СН3-	OCH ₃	Н	Н	CH3-	н
XA1590	СН3-	OCH ₃	Н	Н	СН3-	Н
XA1591	снз-		Н	Н	СН3-	H
XA1592	снз-	CC	н	Н	СН3-	н
XA1593	снз-	СН3-	н	Н	СН3-	снз-
XA1594	снз-	СН3СН2-	н	Н	CH3-	СН3
XA1595	СН3-	^ \\	н	Н	СН3-	СН3-
XA1596	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Н	СН3-	СН3-
XA1597	CH3-	\\\\\	Н	Н	CH3-	СН3-
XA1598	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Ĥ	СН3-	снз-
XA1599	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н	СН3-	СН3-
XA1600	СН3-	7'\	Н	Н	CH3-	СН3-
XA1601	СН3-	∕ ∖∕∖	Н	Н .	СН3-	СН3-
XA1602	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Н	CH3-	СН3-
XA1603	СН3-	×	Н	Н	CH3-	СН3
XA1604	СН3-		Н	н .	СН3-	СН3-
XA1605	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	СН3-	СН3-
XA1606	снз-		Н	Н	CH3-	СН3-
XA1607	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	СН3-	СН3-
XA1608	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	СН3-	снз-

No.	R1	R2	R3	R4	R5	R6
XA1609	СН3-	n-C8H17-	Н	Н	снз-	СН3-
XA1610	СН3-		Н	Н	снз-	CH3-
XA1611	снз-		Н	Н	СН3-	CH3-
XA1612	СН3-		Н	Н	CH3-	СН3-
XA1613	СН3-		Н	Н	СН3-	СН3-
XA1614	СН3-	ightharpoonup	н.	Н	снз-	CH3-
XA1615	снз-″		Н	Н	СН3-	СН3
XA1616	СН3~		н	н	CH3-	CH3-
XA1617	СН3-		H .	н	СН3-	CH3-
XA1618	СН3-		н	Н	CH3-	СН3-
XA1619	снз-		Н	Н	CH3-	СН3-
XA1620	снз–		н	Н	СН3-	СН3-
XA1621	снз-	<u></u>	н	Н	CH3-	СН3-
XA1622	СН3-		н	н	СН3-	СН3-
XA1623	СН3-	F	Н	Н	СН3-	СН3-
XA1624	СН3-	F{-}{	H	Н	СН3-	CH3-
XA1625	СН3-	F-{}	Н	Н	СН3-	СН3-
XA1626	СН3-		Н	Н .	СН3-	CH3-
XA1627	СН3-	CI	Н	Н	СН3-	СН3-
XA1628	СН3-	CI	Н	Н	СН3-	СН3-
XA1629	СН3-	C├ - -{	Н	Н	СН3-	СН3-
XA1630	СН3-	C⊢ ()–{	Н	Н	СН3-	СН3-

No.	R1	R2	R3	R4	R5	R6
XA1631	СН3-	C⊢{_}m{	Н	Н	снз-	снз-
XA1632	СН3-	Br	Н	Н	СН3-	снз-
XA1633	снз-	Br	Н	Н	СН3-	СН3-
XA1634	CH3-	Br-{	Н	Н	СН3-	СН3-
XA1635	снз-	Br—{	Н	Н	СН3-	СН3-
XA1636	СН3-	Br—⟨\···{	н	Н	СН3-	снз-
XA1637	CH3-		Н	Н	СН3-	СН3-
XA1638	СН3-		Н	Н	СН3-	СН3-
XA1639	СН3-	├ ──}-{	Н	Н	снз-	СН3-
XA1640	СН3-	CH₃	Н	Н	СН3-	СН3-
XA1641	СН3-	H ₃ C	Н	Н	СН3	снз-
XA1642	СН3-	H ₃ C-{{}}	Н	Н	снз-	снз-
XA1643	СН3-	C ₂ H ₅ {	Н	Н	снз-	СН3-
XA1644	СН3-	n-C ₃ H ₇ —{}	н	Н	СН3-	снз–
XA1645	СН3-	n-C ₄ H ₉ —{}	н	Н	снз-	СН3-
XA1646	СН3-	OH ————————————————————————————————————	Н	Н	СН3-	снз-
XA1647	СН3-	HO HO	Н	Н	СН3-	СН3-
XA1648	СН3-	HO-{\bigcirc}{	Н	Н	снз-	снз-
XA1649	СН3-	OCH₃	Н	Н	СН3-	СН3-
XA1650	снз-	H₃CO <u></u>	Н	Н	снз-	СН3-
XA1651	СН3-	H ₃ CO-{{}	Н	Н	СН3-	CH3-
XA1652	СН3-	H ₃ CO-	Н	Н	снз-	СН3-

No.	R1	R2	R3	R4	R5	R6
XA1653	CH3-	H ₃ CO-	н	н	СН3-	СН3-
XA1654	CH3-	OC ₂ H ₅	Н	н	снз-	СН3-
XA1655	CH3-	C ₂ H ₅ O	Н	Н	СН3-	снз-
XA1656	СН3-	C ₂ H ₅ O-{	н	Н	снз-	снз-
XA1657 .	СН3-	n-C ₃ H ₇ O-	Н	н	снз-	СН3-
XA1658	СН3-	n-C ₄ H ₉ O-	Н	Н	СН3-	СН3-
XA1659	СН3-	NO ₂	Н	Н	СН3-	СН3-
XA1660	СН3-	O ₂ N	Н	Н	СН3-	СН3-
XA1661	СН3-	O ₂ N-{	Н	Н	СН3-	СН3-
XA1662	СН3-	CN	Н	Н	CH3-	СН3-
XA1663	СН3-	NC	Н	Н	CH3-	СН3-
XA1664	снз-	NC-{}	Н	Н	CH3-	СН3-
XA1665	снз-	NH ₂	Н	Н	СН3-	СН3-
XA1666	СН3-	H ₂ N	Н	Н	CH3-	СН3-
XA1667	СН3-	H_2N	Н	н	CH3-	CH3-
XA1668	снз–	NMe₂	Н	Н	CH3-	СН3-
XA1669	СН3-	Me ₂ N	Н	Н	CH3-	СН3-
XA1670	СН3-	Me₂N-⟨¯¯}⊰	Н .	Н	СН3-	CH3-
XA1671	CH3-	\(\nabla_{}\)	Н	н	CH3-	СН3-
XA1672	СН3-	CN-⟨Ş.	Н	Н	CH3-	СН3-
XA1673	СН3-	_\-\\-_\-\	Н	Н	CH3-	СН3-
XA1674	СН3-	\(\sigma_{\sigma}\)	Н	Н	CH3-	CH3-

No.	R1	R2	R3	R4	R5	R6
XA1675	снз-	_N-<	Н	Н	СН3-	СН3-
XA1676	снз-	N-{_}{	Н	н	СН3-	СН3-
XA1677	снз-	○ N- / >	Н	н	СН3-	СН3-
XA1678	снз-		Н	н	СН3-	СН3-
XA1679	снз-	o_N-{_}}	H	Н	СН3-	CH3-
XA1680	СН3-	H ₃ CN N-	Н	н	СН3-	СН3-
XA1681	СН3-	H ₃ CN N-	Н	н	СН3-	снз-
XA1682	СН3-	H ₃ CN_N-{_}{	Н	Н	СН3-	СН3-
XA1683	снз-	OCH ₃	Н	Н	СН3-	СН3-
XA1684	СН3-	OCH ₃	н	Н	СН3-	СН3-
XA1685	СН3-	OCH ₃ F——	Н	Н	СН3-	СН3-
XA1686	СН3-		Н	Н	СН3-	СН3-
XA1687	СН3-	CCY	Н	Н	СН3-	CH3-
XA1688	СН3-	снз-	Н	СН3-	СН3-	СН3-
XA1689	СН3-	снзсн2-	Н	СН3-	СН3-	СН3-
XA1690	СН3-	∕ ∖\	Н	СН3-	СН3-	СН3-
XA1691	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СН3-	СН3-	СН3-
XA1692	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СН3-	СН3-	СН3-
XA1693	СН3-	人、	Н	CH3-	СН3-	СН3-
XA1694	CH3-	~~``	Н	CH3-	снз-	СН3-
XA1695	CH3-	7	Н	СН3-	снз-	СН3-
XA1696	CH3-	^ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	снз-	онз-	СН3-

No.	R1	R2	R3	R4	R5	R6
XA1697	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	CH3-	СН3-	СН3-
XA1698	CH3-	Xx	Н	СН3-	СН3-	CH3-
XA1699	CH3-	→	Н	снз-	снз-	CH3-
XA1700	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	снз-	СН3-	СН3-
XA1701	СН3-		Н	СН3-	СН3-	СН3-
XA1702	снз-	^	Н	СН3-	снз-	СН3-
XA1703	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	СН3-	СН3-	СН3-
XA1704	СН3-	n-C8H17-	Н	СН3-	CH3-	СН3-
XA1705	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СН3-	СН3-	СН3
XA1706	СН3-		Н	CH3-	СН3-	СН3-
XA1707	СН3-		Н	СН3-	CH3-	СН3-
XA1708	СН3-		Н	СН3-	CH3-	СН3-
XA1709	СН3-		Н	СН3-	СН3-	СН3-
XA1710	СН3-	\downarrow	Н	СН3-	CH3-	CH3-
XA1711	СН3-	$\bigcirc \!$	Н	СН3-	CH3-	CH3-
XA1712	СН3-		н	СН3-	CH3-	CH3-
XA1713	СН3-		Н	СН3-	СН3-	CH3-
XA1714	СН3-		Н	СН3-	СН3-	СН3-
XA1715	СН3-		Н	СН3-	CH3-	СН3-
XA1716	СН3-	<u></u>	Н	СН3-	CH3-	CH3-
XA1717	СН3-	F {}	Н	СН3-	СН3-	CH3-
XA1718	СН3-	F{i}	Н	СН3-	СН3-	CH3-

No.	R1	R2	R3	R4	R5	R6
XA1719	СН3-	F-(Н	СН3-	снз-	CH3-
XA1720	СН3-	F-{>={	Н	СН3-	СН3-	CH3-
XA1721	CH3-	F{> -{	Н	CH3-	СН3-	снз-
XA1722	CH3-	CI	Н	СН3	СН3-	снз-
XA1723	СН3-	CI →	Н	CH3-	CH3-	СН3–
XA1724	CH3-	c⊢ ()—{	Н	CH3-	CH3-	СН3
XA1725	СН3-	C	Н	CH3-	снз-	CH3-
XA1726	СН3-	CI—(Н	CH3-	CH3-	СН3-
XA1727	СН3-	Br	Н	СН3	СН3-	CH3-
XA1728	СН3-	Br	Н	СН3-	CH3-	CH3-
XA1729	СН3-	Br—{_}_{}	Н	CH3-	CH3-	СН3-
XA1730	СН3-	Br—⟨S	Н	СН3-	CH3-	СН3-
XA1731	СН3-	Br—⟨⟩⊪{	Н	СН3-	CH3-	СН3-
XA1732	СН3-	 	Н	СН3-	CH3-	СН3-
XA1733	снз-		Н	СН3-	СН3-	СН3-
XA1734	снз–		Н	СН3-	CH3-	CH3-
XA1735	снз-	\ <u>_</u> }_3	Н	СН3-	СН3-	СН3-
XA1736	СН3-	H ₃ C	Н	СН3-	CH3-	CH3-
XA1737	снз-	H ₃ C-{	Н	СН3-	СН3-	CH3-
XA1738	СН3-	C ₂ H ₅ {}{	Н	СН3-	СН3-	СН3-
XA1739	СН3-	n-C ₃ H ₇ {_}-{	Н	СН3-	СН3-	СН3-
XA1740	СН3-	ņ-C₄H ₉ {_}-{	Н	СН3	СН3-	CH3-

No.	R1	R2	R3	R4	R5	R6
XA1741	СН3-	OH	н	СН3-	СН3-	СН3-
XA1742	CH3-	HO —}	H	СН3-	снз-	СН3-
XA1743	CH3-	HO-{\bigcirc}{	Н	снз-	снз-	снз-
XA1744	CH3-	OCH₃	н	СН3-	СН3-	СН3-
XA1745	СН3-	H₃CO —}	н	CH3-	СН3-	снз-
XA1746	CH3-	H ₃ CO-{{}	н	СН3-	СН3-	снз-
XA1747	снз-	H ₃ CO-{}	Н	СН3-	СН3-	снз-
XA1748	СН3-	H ₃ CO-Const	Н	СН3-	снз–	СН3-
XA1749	СН3-	OC ₂ H ₅	Н	СН3-	СН3-	СН3-
XA1750	снз-	C ₂ H ₅ O	н	СН3-	снз-	СН3-
XA1751	СН3-	C ₂ H ₅ O-	Н	СН3-	снз-	СН3-
XA1752	снз-	n-C ₃ H ₇ O-	Н	СН3-	СН3-	СН3-
XA1753	снз-	n-C ₄ H ₉ O-	Н	СН3-	СН3-	СН3-
XA1754	СН3-	NO ₂	Н	CH3-	СН3-	CH3-
XA1755	снз-	O ₂ N	Н	СН3-	СН3-	СН3-
XA1756	СН3-	O ₂ N-{}	Н	СН3-	СН3-	CH3-
XA1757	снз-	CN	Н	снз	снз-	СН3-
XA1758	снз-	NC	Н	СН3-	СН3-	CH3-
XA1759	СН3-	NC-{}	Н	снз-	снз-	CH3-
XA1760	СН3-	NH ₂	Н	СН3-	СН3-	СН3-
XA1761	СН3-	H_2N	Н	снз-	СН3-	СН3-
XA1762	СН3-	H ₂ N-{	н	снз-	снз-	СН3-

No.	R1	R2	R3	R4	R5	R6
XA1763	CH3-	NMe ₂	Н	CH3-	СН3-	СН3-
XA1764	СН3-	Me ₂ N	Н	СН3-	СН3-	снз-
XA1765	СН3-	Me ₂ N-{}	Н	СН3-	СН3-	СН3-
XA1766	СН3-	CN-S	н	СН3-	СН3	СН3-
XA1767	СН3-	CN-C	Н	CH3-	СН3-	CH3-
XA1768	СН3-	_N-{_}-{	Н	СН3-	СН3-	снз-
XA1769	СН3-		Н	СН3-	СН3-	СН3-
XA1770	СН3-		н	СН3-	СН3-	СН3-
XA1771	СН3-	_N-_}\	н	СН3-	СН3-	СН3-
XA1772	СН3-	○ N- ()	н	СН3-	СН3-	СН3-
XA1773	СН3-	○ N- ()	н	СН3-	СН3-	СН3-
XA1774	СН3-	O_N-{_}{}	Н	снз-	СН3-	СН3-
XA1775	СН3-	H ₃ CN N	н	СН3-	СН3-	СН3-
XA1776	СН3-	H ₃ CN N-	Н	СН3-	СН3-	СН3-
XA1777	CH3-	H ₃ CN_N-{_}{	Н	СН3-	CH3-	снз-
XA1778	CH3-	OCH ₃ F—⟨	Н	СН3-	СН3-	СН3-
XA1779	CH3-	OCH ₃	Н	СН3-	СН3-	CH3-
XA1780	CH3-	OCH ₃	Н	CH3-	СН3-	СН3-
XA1781	CH3-		Н	СН3-	СН3-	СН3-
XA1782	CH3-	CCT'	Н	СН3-	снз-	СН3-
XA1783	CH3CH2-	СН3-	Н	Н	Н	н
XA1784	СН3СН2-	СН3СН2-	Н	Н	Н	Н

No.	R1 .	R2	R3	R4	R5	R6
XA1785	СН3СН2-	<u></u>	Н	н	н	Н
XA1786	СН3СН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н	н	н
XA1787	СН3СН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Н	н	Н
XA1788	СН3СН2-	<u></u>	Н	Н	Н	н
XA1789	СН3СН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н	Н	Н
XA1790	СН3СН2-	>\^\\\	Н	H	Н	н
XA1791	СН3СН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н	н	н
XA1792	СН3СН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	Н	Н
XA1793	СН3СН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	Н	Н
XA1794	СН3СН2-	\rightarrow	н	Н	Н	Н
XA1795	СН3СН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	Н	Н
XA1796	СН3СН2-		Н	Н	Н	Н
XA1797	СН3СН2-	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Н	Н	Н	Н
XA1798	СН3СН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	н	Н	н
XA1799	СН3СН2-	n-C8H17-	Н	Н	н	н
XA1800	СН3СН2-		н	н	н	Н
XA1801	СН3СН2-		Н	н	Н	Н
XA1802	СН3СН2-		Н	н	Н	Н
XA1803	СН3СН2-		Н	Н	Н	H
XA1804	СН3СН2-	$\triangleright \rightarrow$	Н	Н	Н	н
XA1805	СН3СН2-	◇ !	Н	н	Н	Н
XA1806	СН3СН2-		Н	Н	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1807	СН3СН2-		н	Н	Н	Н
XA1808	СНЗСН2-		Н	Н	Н	Н
XA1809	СН3СН2-		Н	Н	Н	н
XA1810	СН3СН2-		н	H	Н	Н
XA1811	СН3СН2-	<u></u>	н	н	Н	Н
XA1812	СН3СН2-	△	Н	Н	Н	Н
XA1813	СН3СН2-	<u></u>	Н	н	Н	Н
XA1814	СН3СН2-	F(-);	Н	Н	Н	н
XA1815	СН3СН2-		H ·	H	Н	Н
XA1816	СН3СН2-	F—————————————————————————————————————	Н	н	Н	Н
XA1817	СН3СН2-	CI	Н	Н	H .	Н
XA1818	СН3СН2-	CI	Н	Ĥ	Н	Н
XA1819	СН3СН2-	c⊢{;	н	Н	Н	Н .
XA1820	СН3СН2-	C⊢ ()→	Н	Н	Н	Н
XA1821	СН3СН2-	CI—(Н	Н	Н	Н
XA1822	СН3СН2-	Br	Н	Н	Н	Н
XA1823	СН3СН2-	Br{	Н	Н	Н	Н
XA1824	СН3СН2-	Br—{	Н	Н	Н	Н
XA1825	СН3СН2-	Br— (Н	Н	Н	Н
XA1826	СН3СН2-	Br—〈〉···﴿	Н	Н	Н	Н
XA1827	СН3СН2-	□	Н	Н	Н	Н
XA1828	СН3СН2-		Н	Н	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1829	СН3СН2-	⊢ ⊘_;	Н	Н	Н	Н
XA1830	СН3СН2-	CH₃	Н	Н	Н	Н
XA1831	СНЗСН2-	H ₃ C	Н	Н	Н	Н
XA1832	СН3СН2-	H ₃ C-{}-{	Н	Н	H	Н
XA1833	СН3СН2-	C ₂ H ₅ -{	Н	Н	Н	Н
XA1834	СН3СН2-	n-C ₃ H ₇ {}	Н	Н	н	Н
XA1835	СН3СН2-	n-C ₄ H ₉ —{{}	н	Н	Н	Н
XA1836	СН3СН2-	OH ○	н	н	Н	Н
XA1837	СН3СН2-	HO HO	Н	Н	Н	Н
XA1838	СН3СН2-	HO-{\bigcirc}	н	Н	Н	н .
XA1839	СН3СН2-	OCH₃	Н	Н	Н	н
XA1840	СН3СН2-	H ₃ CO	Н	Н	Н	Н
XA1841	СН3СН2-	H ₃ CO-{}	н	н	Н	н
XA1842	СН3СН2-	H ₃ CO-	Н	Н	Н	Н
XA1843	СН3СН2-	H ₃ CO-{\bigs\middle}\mid	Н	H .	Н	Н
XA1844	СН3СН2-	OC ₂ H ₅	Н	Н	н	Н
XA1845	СН3СН2-	C ₂ H ₅ O	Н	Н	Н	Н
XA1846	СН3СН2-	C ₂ H ₅ O-{{}}	Н	Н	н	Н
XA1847	СН3СН2-	n-C ₃ H ₇ O-	Н	Н	Н	Н
XA1848	СН3СН2-	n-C ₄ H ₉ O-{}-{	Н	Н	Н	Н
XA1849	СН3СН2-	NO ₂	Н	Н	Н	Н
XA1850	СН3СН2-	O ₂ N 	Н	Н	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1851	СН3СН2-	O ₂ N-{}	Н	Н	Н	Н
XA1852	СНЗСН2-	CN	Н	Н	Н	Н
XA1853	СН3СН2-	NC	Н	н	Н	Н
XA1854	СН3СН2-	NC-{}-{	Н	Н	н	Н
XA1855	СН3СН2-	NH ₂ →	Н	Н	Н	Н
XA1856	СН3СН2-	H ₂ N →	Н	Н	Н	Н
XA1857	СН3СН2-	H ₂ N-{}	Н	Н	Н	Н
XA1858	СН3СН2-	NMe ₂	н	Н	Н	Н
XA1859	СН3СН2-	Me ₂ N	Н	н	Н	н
XA1860	СН3СН2-	Me ₂ N—	Н	Н	Н	Н
XA1861	СН3СН2-	CN-S	н	н	н .	н
XA1862	СН3СН2-		н	Н	Н	Н
XA1863	СН3СН2-		Н	н	Н	н
XA1864	СН3СН2-		н	н	Н	Н
XA1865	СНЗСН2-	N-Q	Н	Н	H	н
XA1866	СН3СН2-	N-(Н	Н	Н	Н
XA1867	СНЗСН2-		Н	Н	Н	Н
XA1868	СНЗСН2-		Н	Н	Н	Н
XA1869	СНЗСН2-	O_N-{_}}	Н	Н	н	Н
XA1870	СНЗСН2-	H3CN N	Н	Н .	Н	Н
XA1871	СНЗСН2-	H ₃ CN N-	Н	Н	Н	Н
XA1872	СН3СН2-	H3CN N-()-	Н	Н	Н	Н

No.	R1 .	R2	R3	R4	R5	R6
XA1873	СН3СН2-	OCH ₃	Н	Н	Н	Н
XA1874	СН3СН2-	i. /=/ ,	н	Н	Н	н
XA1875	СНЗСН2-		Н	Н	Н	H
XA1876	СН3СН2-		H	Н	Н	Н
XA1877	СН3СН2-		Н	Н	Н	Н
XA1878	СНЗСН2-	СН3-	Н	CH3-	Н	Н
XA1879	СН3СН2-	СН3СН2-	Н	СН3-	Н	н
XA1880	СН3СН2-	/ √√\	н	СН3-	Н	Н
XA1881	СН3СН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СН3-	Н	Н
XA1882	СН3СН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СН3-	Н	Н
XA1883	СН3СН2-	↓x	Н	СН3-	Н	н
XA1884	СН3СН2-	74	Н	СН3-	Н	Н
XA1885	СН3СН2-	7'	Н	СН3-	Н	Н
XA1886	СН3СН2-	^	н	СН3-	Н	Н
XA1887	СН3СН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	СН3-	Н	Н
XA1888	СН3СН2-	Xr .	Н	СН3-	Н	Н
XA1889	СН3СН2-	7	Н	СН3-	Н	н
XA1890	СН3СН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СН3-	Н	Н
XA1891	СН3СН2-		Н	СН3-	H	Н
XA1892	СН3СН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	CH3-	Н	Н
XA1893	СНЗСН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СН3-	Н	Н
XA1894	CH3CH2-	n-C8H17-	Н	СН3-	Н]-

No.	R1	R2	R3	R4	R5	R6
XA1895	СН3СН2-		Н	СН3-	Н	н
XA1896	СН3СН2-		Н	СН3-	Н	н
XA1897	СНЗСН2-		Н	СН3-	H	Н
XA1898	СН3СН2-		Н	СН3-	H	Н
XA1899	СН3СН2-	$\triangleright \dashv$	Н	СН3-	H	Н
XA1900	СН3СН2-	♦	н	СН3-	н	Н
XA1901	СН3СН2-		н	СН3-	Н	Н
XA1902	СН3СН2-		Н	СН3-	Н	Н
XA1903	СН3СН2-		Н	СН3	Н	Н
XA1904	СН3СН2-		Н	СН3-	н	н
XA1905	СН3СН2-		н	СН3-	Н	Н
XA1906	СН3СН2-		Н	СН3-	Н	Н
XA1907	CH3CH2-	F 	Н	СН3-	н	н
XA1908	СН3СН2-	F	Н	СН3-	Н	н
XA1909	СН3СН2-	F-(Н	СН3-	Н	н
XA1910	СН3СН2-	F_	Н	СН3-	Н	н
XA1911	СНЗСН2-	F——	Н	СН3-	Н	Н
XA1912	СН3СН2-	CI →	Н	СН3-	Н	Н
XA1913	СН3СН2-	CI	Н	СН3-	Н	Н
XA1914	СН3СН2-	C⊢ (_)—{	Н	СН3-	Н	Н
XA1915	СНЗСН2-	CI—(Н	СН3-	Н	Н
XA1916	СНЗСН2-	CH	Н	СН3-	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1917	СН3СН2-	Br	Н	СН3-	Н	Н
XA1918	СН3СН2-	Br.	Н	СН3-	Н	Н
XA1919	снзсн2-	Br—⟨{	Н	СН3-	н	Н
XA1920	СН3СН2-	Br- ⟨]>−{	н .	СН3-	н	Н
XA1921	СН3СН2-	Br—{	Н	CH3-	Н	н
XA1922	СН3СН2-	◯ -;	Н	CH3-	Н	Н
XA1923	СН3СН2-		Н	CH3-	Н	Н
XA1924	СН3СН2-	├ ───}	Н	СН3-	Н	Н
XA1925	СН3СН2-	CH ₃	H .	СН3-	Н	Н
XA1926	СН3СН2-	H ₃ C	Н	СН3-	Н	Н
XA1927	СН3СН2-	H ₃ C-∕∑}{	н	СН3-	Н	Н
XA1928	СН3СН2-	C ₂ H ₅ —{	Н	СН3-	Н	н
XA1929	СН3СН2-	n-C ₃ H ₇ —{}	Н	СН3-	н	Н
XA1930	СН3СН2-	n-C ₄ H ₉ —{}	Н	СН3-	Н	Н
XA1931	СН3СН2-	OH →	Н	СН3-	н	н
XA1932	СН3СН2-	HO · _	Н	СН3-	H	Н
XA1933	СН3СН2-	HO-{\bigcirc}-{	Н	СН3	н	Н
XA1934	СН3СН2-	OCH ₃	Н	СН3-	Н	Н
~XA1935	CH3CH2-	H ₃ CO	Н	0Н3-	Н	Н
XA1936	СН3СН2-	H ₃ CO-{_}-{	Н	СН3-	Н	Н
XA1937	CH3CH2-	H₃CO- { }	Н	СН3-	Н	Н
XA1938	СН3СН2-	H ₃ CO-{\bigs\mu\!	Н	СН3-	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1939	СН3СН2-	OC ₂ H ₅	Н	СН3-	Н	Н
XA1940	СН3СН2-	C ₂ H ₅ O	Н	СН3-	Н	Н
XA1941	СН3СН2-	C ₂ H ₅ O-{}	Н	снз-	Н	Н
XA1942	СН3СН2-	n-C ₃ H ₇ O-	Н	СН3-	н	Н
XA1943	СН3СН2-		Н	СН3-	Н	H
XA1944	СН3СН2-	NO ₂	Н	СН3-	н	Н
XA1945	СН3СН2-	O ₂ N	н	СН3-	н	Н
XA1946	СН3СН2-	O_2N-	н	СН3-	Н	Н
XA1947	СН3СН2-	CN →	Н ,	СН3-	Н	н .
XA1948	СН3СН2-	NC —	Н	СН3-	Н	н
XA1949	СН3СН2-	NC-{_}	н	CH3-	Н	Н
XA1950	СН3СН2-	NH ₂	Н	СН3-	Н	н
XA1951	СН3СН2-	H ₂ N	Н	СН3-	Н	Н
XA1952	СН3СН2-	H_2N-	Н	СН3-	Н	Н
XA1953	СН3СН2-	NMe ₂	Н	СН3-	н	Н
XA1954	СН3СН2-	Me ₂ N · ↓	Н	СН3-	н	Н
XA1955	СН3СН2-	Me ₂ N-√	Н	СН3-	н	н
XA1956	СН3СН2-	CN-	Н	СН3	Н	Н
XA1957	CH3CH2-	CN-(Н	СН3-	н	Н
XA1958	CH3CH2-	N-(-)-1	Н	CH3-	Н	Н
XA1959	CH3CH2-	N-	Н	CH3-	Н	Н
XA1960	СН3СН2-	\(\rightarrow\)	Н	CH3-	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1961	СН3СН2-	N-{_}-;	н	СН3-	Н	н
XA1962	СН3СН2-	o_n-<	Н	СН3-	Н	Н
XA1963	СНЗСН2-		Н	СН3-	Н	Н
XA1964	СН3СН2-	O_N-{_}-{}	Н	СН3-	Н	Н
XA1965	СН3СН2-	H ₃ CN N—	Н	СН3-	Н	H
XA1966	СН3СН2-	H3CN N-	Н	СН3-	Н	Н
XA1967	СН3СН2-	H3CN N-{}	Н	снз-	Н	Н
XA1968	СН3СН2-	OCH₃ F—{}	Н	снз-	Н	н
XA1969	СН3СН2-	OCH ₃	н	снз–	н	Н
XA1970	СН3СН2-	OCH ₃	Н	СН3-	Н	Н
XA1971	СН3СН2-		Н	СН3-	Н	Н
XA1972	СН3СН2-	CCC 's	H	СН3-	Н	Н

No.	STRUCTURE
XA1973	CI N N O CH ₃
XA1974	Br N N O CH ₃
XA1975	CH ₃ O N N N CH ₃ C O CH ₃
XA1976	CIH CIH

XA1977	CIH CIH N N N O CH ₃
XA1978	CI N CH ₃
XA1979	CI N N N N N N N N N N N N N N N N N N N
XA1980	HCI HCI N N N CH ₃

XA1981	HCI HCI HCI CH ₃
XA1982	HCI HCI HCI HCI CH ₃
XA1983	CIH CIH N N O CH ₃
XA1984	CIH CIH CIH N N N O N CH ₃ C CH ₃

XA1985	
	CIH CIH N N O CH ₃
XA1986	CIH CIH CH ₃ CH ₃
XA1987	CIH CIH N CH3
XA1988	HCI HCI N N N N N N O CH ₃

XA1989	HCI HCI N N N N O CH ₃
XA1990	HCI HCI N H ₃ C HCI HCI N N N O CH ₃
XA1991	CH ₃ HCI N N CH ₃ O CH ₃
XA1992	CIH CIH N N O CH ₃

XA1993	CIH CIH CIH N N N O N H ₃ C CH ₃
XA1994	CIH CIH CIH CIH CH N N CH CH CH CH CH CH CH
XA1995	CIH CIH N N CIH N N CH3 CH3 CH3
XA1996	CH ₃ CIH CIH N N CH ₃

XA1997	CH ₃ CIH CIH N N N N O H ₃ C CH ₃
XA1998	CIH CIH N N O CH ₃
XA1999	HCI CIH CIH N N N CH ₃ C N CH ₃
XA2000	CIH CIH N N O CH ₃

XA2001	CIH CIH CIH CH ₃ CH ₃
XA2002	CIH CIH N N O CH ₃ CCH ₃
XA2003	N N CH ₃
XA2004	HCI HCI N N CH ₃

XA2005	HCI HCI CI C
XA2006	HCI HCI PCI PCI PCI PCI PCI PCI PCI PCI PCI P
XA2007	HCI HCI HCI N N N CH ₃

XA2008	H ₃ C N N N O CH ₃
XA2009	HCI N N N O CH ₃
XA2010	HCI NO CH ₃
XA2011	N N N O CH ₃

XA2012	H ₃ C-SOOH NOON CH ₃
XA2013	HCI HCI N N N N O CH ₃
XA2014	CH ₃ HCI HCI N HCI N CH ₃ CH ₃
XA2015	HCI N N N N O CH ₃

XA2016	HCI HCI HCI CH ₃
XA2017	HCI CH ₃ HCI N N O CH ₃
XA2018	ON NO NO CH ₃
XA2019	H ₃ C N N N O CH ₃

XA2020	HO N N N N N N O CH ₃
XA2021	H ₃ C O N O CH ₃
XA2022	N N N N N N N N N N N N N N N N N N N
XA2023	CIH N N CH3
XA2024	HO N N N O CH ₃

XA2025	H ₃ C N N N N N CH ₃
XA2026	CH ₃ N N CH ₃ O CH ₃
XA2027	H ₃ C S O N N N N N N N N CH ₃
XA2028	N N CH ₃

XA2029	
	F F CH ₃
XA2030	F F N N O CH ₃
XA2031	PHO C C C C C C C C C C C C C C C C C C C
XA2032	N CH ₃

VA2022	
XA2033	H ₃ C
XA2034	CH ₃ CH ₃ CH ₃
XA2035	CH ₃ O CH ₃

XA2036	CI N N N N O CH ₃
XA2037	CI CI N N N CH ₃
XA2038	CI N N N CH ₃
XA2039	O-N N-N-N-O-CH ₃

B	
XA2040	N N N CH ₃
XA2041	N N C H ₃
XA2042	H ₃ C O N N N O CH ₃
XA2043	H ₃ C O N N O CH ₃

XA2044	
	CH ₃ S N N N CH ₃ CH ₃
XA2045	H ₃ C N N N O CH ₃
XA2046	H ₃ C CH ₃ N N N O CH ₃
XA2047	H ₃ C N N N O CH ₃

XA2048	
	H ₂ N N N O CH ₃
XA2049	H ₃ C N N N O CH ₃
XA2050	Br N N N N N N N N N N N N N N N N N N N
XA2051	Br N O CH ₃

XA2052	Br N CH ₃
ЖA2053	H ₃ C O N CH ₃
XA2054	F N N O CH ₃
XA2055	N N N CH ₃

Table-2

Table-2				*				
$\begin{array}{c} N \\ N \\ R_3 \\ R_4 \\ R_5 \end{array}$								
No	R1	R2	R3	R4	R5			
XB1	снз-	CH3-	H	Н	Н .			
XB2	снз-	CH3CH2-	Н	н	Н			
XB3	снз-	∕ \\\\	Н	н	Н			
XB4	CH3-	74	Н	Н	Н			
XB5	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н	Н			
XB6	СН3-	<u></u>	Н	Н	Н			
XB7	снз-	7	Н	н	Н			
XB8	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	Н			
XB9	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	Н			
XB10	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	Н			
XB11	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	н			
XB12	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	Н			
XB13	снз-		Н	н	Н			
XB14	снз-		Н	Н	Н			
XB15	снз-		Н	Н	Н			
XB16	СН3-	<u></u>	Н	Н	Н			
XB17	СН3-	F 	Н	н	Н			

No	R1	R2	R3	R4	R5
XB18	CH3-	F	Н	н	Н
XB19	СН3-	F-(-){	Н	Н	Н
XB20	СН3-	CI	Н	Н	Н
XB21	СН3-	CI	Н	Н	H .
XB22	СН3-	C ⊢ €	Н	Н	Н
XB23	СН3-	Br	Н	Н	Н
XB24	СН3-	Br.	Н	Н	н
XB25	СН3-	Br─────	Н	Н	Н
XB26	СН3-	CH ₃	н	Н	Н
XB27	СН3-	H ₃ C	н	Н	Н
XB28	СН3-	H ₃ C-{	Н	Н	Н
XB29	СН3-	C ₂ H ₅ —{	Н	Н	н
XB30	СН3-	OH	н	н	н
XB31	CH3-	HO	Н	Н	н
XB32	CH3-	HO-	Н	Н	Н
XB33	СН3-	OCH ₃	Н	Н	Н
XB34	СН3-	H ₃ CO	Н	Н	Н
XB35	СН3-	H₃CO-⟨}~	Н	н	Н
XB36	CH3-	C ₂ H ₅ O-{{{}^{\!	Н	Н	Н
XB37	CH3-	NO ₂	Н	Н	Н
XB38	CH3-	O ₂ N	Н	Н	Н

No	R1	R2	R3	R4	R5
XB39	СН3-	O ₂ N-{}	Н	Н	Н
XB40	СН3-	CN →	Н	Н	Н
XB41	снз-	NC ——{	Н	Н	Н
XB42	СН3-	NC-{}-{	Н	Н	H .
XB43	СН3-		н	Н	н
XB44	CH3-		Н	Н	Н
XB45	CH3-	CC	н	Н	Н
XB46	CH3-	O'N	Н	Н	Н
XB47	CH3-	F ON	Н	Н	Н
XB48	СН3-		Н	Н	Н
XB49	СН3-	ON	н	Н	Н
XB50	СН3-		ОН	Н	Н
XB51	СН3-	F —	он	Н	Н
XB52	CH3-	F	он	H .	Н
XB53	CH3-	F-(он	Н	Н
XB54	СН3-	CI	он	Н	Н
XB55	CH3-	CI	он	Н	Н
XB56	СН3-	C⊢∕}	он	Н	Н
XB57	снз-	Br ∰-}	ОН	Н	Н
XB58	СН3-	Br.	он	Н	. Н
XB59	CH3-	Br—{_}{	ОН	Н	Н

No	R1	R2	R3	R4	R5
XB60	СН3-	CH ₃	он	Н	Н
XB61	СН3-	H ₃ C	он	Н	н
XB62	СН3-	H ₃ C-{}	он	Н	Н
XB63	СН3-	C ₂ H ₅ —{{{1}}}	ОН	Н	H
XB64	СН3-	OH →	он	н	Н
XB65	СН3-	HO →	он	Н	Н
XB66	СН3-	HO-{\bar{\bar{\bar{\bar{\bar{\bar{\bar	он	Н	Н
XB67	СН3-	OCH ₃	он	Н	Н
XB68	СН3-	H ₃ CO	он	Н	Н
XB69	СН3-	H₃CO-⟨}	он	Н	Н
XB70	СН3-	C_2H_5O-	он	Н	Н
XB71	СН3-	NO ₂	ОН	Н	Н
XB72	СН3-	O ₂ N	он	Н	Н
XB73	CH3-	O ₂ N-{}	он	H	Н
XB74	СН3-	CN	он	Н	H
XB75	CH3-	NC	он	Н	Н
XB76	СН3-	NC-{_}	он .	Н	Н
XB77	CH3-	CN O	он	Н	Н
XB78	снз-		он	Н	Н
XB79	CH3-	CC	он	Н	Н
XB80	CH3-	<u></u>	CN	Н	Н

No	R1	R2	R3	R4	R5
XB81	СН3-	F 	CN	Н	Н
XB82	СН3-	F	CN	Н	н
XB83	СН3-	F-{-}	CN	Н	Н
XB84	CH3-	CI	CN	Н	H .
XB85	CH3-	CI	CN	Н	Н
XB86	CH3-	C⊢∕_}	CN	Н	н
XB87	CH3-	Br 	CN	Н	Н
XB88	СН3-	Br	CN	Н	Н
XB89	СН3-	Br──{	CN	Н	Н
XB90	СН3-	CH ₃	CN	Н	Н
XB91	СН3-	H ₃ C	CN	н	Н
XB92	CH3-	H ₃ C-{{{}}	CN	Н	н
XB93	CH3-	C ₂ H ₅ —{{}	CN	Н	Н
XB94	CH3-	OH →	CN	Н	Н
XB95	СН3-	HO	CN	н	Н
XB96	СН3-	HO-{\bar{\bar{\bar{\bar{\bar{\bar{\bar	CN	Н	н
XB97	CH3-	OCH₃	CN	Н	Н
XB98	CH3-	H ₃ CO	CN	Н	Н
XB99	СН3-	H₃CO-⟨}	CN	н	н
XB100	СН3-	C_2H_5O	CN	Н	Н
XB101	CH3-	NO ₂	CN	Н	Н

No	R1	R2 O ₂ N	R3	R4	R5
XB102	снз-	O ₂ N	CN	Н	Н
XB103	СН3-	O ₂ N-{}	CN	н	Н
XB104	снз-	CN →	CN	Н	Н
XB105	СН3-	NC	CN	н	H
XB106	СН3-	NC-{\rightarrow}-i	CN	Н	Н
XB107	СН3-	CNO	CN	Н	н
XB108	СН3-		CN	Н .	Н
XB109	СН3-		CN	Н	Н
XB110	СН3-	Н	Н	СН3-	Н
XB111	СН3-	н	Н	СНЗСН2-	Н
XB112	CH3-	Н	Н	<u> </u>	H
XB113	СН3	Н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н
XB114	СН3-	Н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н
XB115	CH3-	Н	Н	<u></u>	Н
XB116	CH3-	Н	Н	7	H
XB117	CH3-	Н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н
XB118	СН3-	Н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н
XB119	CH3-	Н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н
XB120	снз-	Н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н
XB121	CH3-	Н	Н	\\\\	H
XB122	CH3-	Н	Н		Н

No	R1	R2	R3	R4	R5
XB123	CH3-	Н	Н	F C S	Н
XB124	СН3-	н	Н	F V V V V V V V V V V V V V V V V V V V	Н
XB125	СН3-	Н	Н		Н
XB126	СН3-	Н	Н		Н .
XB127	СН3-	н	Н		Н
XB128	CH3-	Н	н	F	Н
XB129	СН3-	Н	Н	F	Н
XB130	CH3-	Н	н	F{}-{	Н
XB131	CH3-	Н	Н	CI	Н
XB132	СН3-	H	н	CI	Н
XB133	СН3-	H	Н	C⊢ (Н
XB134	CH3-	Н	н	CI	Н
XB135	CH3-	Н	Н	Br ∰	Н
XB136	СН3-	Н	Н	Br	Н
XB137	CH3-	H	Н	Br─ੑੑੑ	Н
XB138	СН3-	Н	н	CH₃	Н
XB139	СН3-	Н .	Н	H ₃ C	Н
XB140	СН3-	Н	Н	H ₃ C-{}	Н
XB141	CH3-	Н	Н	C ₂ H ₅ —{{{ }}	Н
XB142	CH3-	Н	H	OH	Н
XB143	CH3-	н	Н	HO ———	Н

No	R1	R2	R3	R4	R5
XB144	СН3-	Н	н	HO-	н
XB145	СН3-	Н	Н	OCH₃	Н
XB146	снз-	Н	Н	H ₃ CO	н
XB147	снз-	н	Н	H ₃ CO-{}	H .
XB148	снз-	Н	Н	C_2H_5O-	Н
XB149	снз-	Н	Н	NO ₂	Н
XB150	СН3-	н	Н	O ₂ N	Н
XB151	СН3-	Н	Н	O ₂ N-{}	Н
XB152	снз-	Н	Н	CN	Н
XB153	СН3-	Н	Н	NC	Н
XB154	снз-	Н	Н	NC-{}-{	Н
XB155	СН3-	Н	Н		Н
- XB156	СН3-	Н	Н		Н
XB157	CH3-	Н	Н	F	н
XB158	СН3-	Н	Н	FON	Н
XB159	СН3-	Н	Н	P N	H
XB160	СН3-	Н	H ·	\tag{\text{N}}	Н
XB161	СН3	Н	Н	N S	Н
XB162	СН3-	Н	Н	O N O	Н
XB163	СН3-	Н	Н	O _N 's	Н
XB164	CH3-	Н	Н	F N, h	Н

No	R1	R2	R3	R4	R5
XB165	СН3-	н	Н	CH ₃	Н
XB166	CH3-	Н	Н	F N ² , CH ₃	Н
XB167	СН3-	Н	Н	H ₃ CO	Н
XB168	CH3-	Н	Н	F N ² H ₃ C O	Н

No	R1	R2	R3	R4	R5
XB169	СН3-	Н	Н	⟨ }-{	ОН
XB170	снз-	Н	Н	F	ОН
XB171	СН3-	Н	Н	F{{}}	ОН
XB172	снз-	Н	Н	F-{_}{	он
XB173	СН3-	Н	Н	CI	ОН
XB174	СН3-	Н	Н	CI	ОН
XB175	СН3-	Н	н	CF{{	он
XB176	СН3-	Н	н	Br ∰-{	ОН
XB177	снз-	Н	Н	Br.	он
XB178	СН3-	Н	Н	Br─∰─-{	он
XB179	СН3-	Н	Н	CH ₃	ОН
XB180	СН3-	н	Н	H ₃ C	ОН
XB181	СН3-	Н	Ή	H ₃ C-{	ОН
XB182	CH3-	Н	Н	C ₂ H ₅ —{	он
XB183	СН3-	Н	Н	OH →	он
XB184	СН3-	Н	Н	HO	ОН
XB185	СН3-	Н	н	HO-{\bigcirc}	ОН

No	R1	R2	R3	R4	R5
				OCH ₃	
XB186	СН3-	H	Н		он
			·	H³CÓ,	
XB187	CH3-	Н	Н		он
		- 			
XB188	СН3-	н	н	H ₃ CO-{_}}{	ОН
XB189	снз-	Н	Н	C ₂ H ₅ O-(_)	-{
72100					-3 он
VD400	-			NO ₂	
XB190	CH3~	Н	н	√ }_;	ОН
				O ₂ N	
XB191	СН3-	Н	H		он
					
XB192	снз-	Н	н	$O_2N-\langle \underline{} \rangle - \langle$	он
XB193	снз-	H	н	CN	он
XB194	CH3-	Н	H	NC	
7,5104	0110		"	__\{	ОН
VD105	0110			NC-{_}	
XB195	CH3-	Н	Н	,	ОН
		7			
XB196	CH3-	Н	н		он
	1			2	
XB197	CH3-	Н	н	المركب المرابع	он
XB198	снз-	н	н	⟨ ⟨ ⟩ _⊰	CN
XB199	CH3-	Н	н	F	
XB100	0110	_ ''	ľ	<u> </u>	CN
VDOOO	0110			Ę	
XB200	CH3-	Н	H		CN
XB201	CH3-	Н	Н	F-(){	CN
	 			CI	
XB202	CH3-	Н	Н		CN
				\ <u>_</u> }_	
XB203	снз-	Н	н	CI	CN
				{	ON .
XB204	CH3-	Н	ir v	C⊢ ⟨ _}	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			H	,	CN
VDoor	0110			,Br	
XB205	CH3-	H	H	⟨ "> <u></u>	CN
	· -	 		Br,	
XB206	СН3-	Н	Н		CN
				\ <u></u>	

No	R1	R2	R3	R4	R5
XB207	СН3-	Н	Н	Br—{	CN
XB208	СН3-	Н	Н	CH₃	CN
XB209	СН3-	Н	Н	H ₃ C	СИ
XB210	СН3-	Н	Н	H ₃ C-{{}	CN .
XB211	CH3-	Н	Н	C ₂ H ₅ —{	CN
XB212	СН3-	н	Н	OH →	CN
XB213	СН3-	н	Н	HO	CN
XB214	CH3-	Н	Н	HO-{-}-	CN
XB215	СН3-	Н	Н	OCH ₃	CN
XB216	CH3-	Н	н	H ₃ CO	CN
XB217	CH3-	Н	н	H ₃ CO-{}	CN
XB218	CH3-	Н	Н	C ₂ H ₅ O-{	CN
XB219	СН3-	Н	Н	NO ₂	CN
XB220	CH3-	H	Н	O ₂ N —	CN
. XB221	CH3-	H ·	Н	O ₂ N-{	CN
XB222	CH3-	Н	Н	CN	CN
XB223	СН3-	Н	H .	NC ———	CN
XB224	СН3-	Н	Н	NC-{}	CN
XB225	СН3-	Н	Н		CN
XB226	СН3-	Н	Н	CC	CN
XB227	CH3-	Н	Н	◯ →{	0

No	R1	R2	R3	R4	R5
XB228	CH3-	Н	Н	F	0
XB229	СН3-	Н	Н	F;	0
XB230	СН3-	Н	Н	F—()—(0
XB231	СН3-	Н	Н	CI	
XB232	СН3-	Н	Н	CI	<u></u>
XB233	CH3-	Н	Н	C├ 	<u></u>
XB234	CH3-	Н	Н	Br	\\
XB235	CH3-	Н .	Н	Br.	O
XB236	CH3-	Н	Н	Br—{	, S
XB237	CH3-	Н	Н	CH ₃	0
XB238	CH3-	Н	Н	H ₃ C	0
XB239	CH3-	Н	Н	H ₃ C-_\	0
XB240	СН3-	Н	Н	C ₂ H ₅ —{}	O
XB241	CH3-	Н	Н	OH.	
XB242	CH3-	Н	Н	HO	O
XB243	CH3-	Н	H	HO-{\bigcirc}-{\}	0
XB244	СН3-	Н	Н	OCH ₃	O
XB245	СН3-	Н	Н	H ₃ CO	O
XB246	CH3-	Н	Н	H ₃ CO-{}-{	O
XB247	СН3-	Н	Н	C ₂ H ₅ O-{	0
XB248	СН3-	Н	Н	NO ₂	

No	R1	R2	R3	R4	R5
XB249	CH3-	Н	Н	O ₂ N	0
XB250	СН3-	Н	Н	O_2N-	0=
XB251	СН3-	Н	Н	CN	0
XB252	СН3-	Н	Н	NC →	0
XB253	СН3-	н	H ·	NC-{}	0
XB254	СН3-	н	Н		0
XB255	СН3-	Н	н .	CC '	

STRUCTURE
" CH ₃
* N N O CH ₃
CIH
* N N O CH ₃
N N N N O CH ₃

XB260	
	CIH N N O CH ₃
XB261	N CH ₃
XB262	H ₃ C N N N O CH ₃
XB263	CIH CIH N N N N O CH ₃

XB264	
	H ₃ C N N N O CH ₃
XB265	CH ₃ N N N O CH ₃
XB266	CIH CIH N N N N N N N N N N N N N N N N N N N
XB267	N N O CH ₃
XB268	Br CH ₃

XB269	
	N CH ₃
XB270	N N CH ₃
XB271	F CH ₃
XB272	F F N N O CH ₃

XB273	
	CH ₃ N N CH ₃ CH ₃
XB274	O CH ₃ N N O CH ₃
XB275	CH ₃ N N O CH ₃
XB276	CH ₃ N N O CH ₃

VD277	
XB277	CH ₃
XB278	CH ₃ O CH ₃ O CH ₃
XB279	CH ₃ N CH ₃ O CH ₃ O CH ₃
XB280	CH ₃ H ₃ C CH ₃ N CH ₃
XB281	Br N N O CH ₃

XB282	
	N N N O CH ₃
XB283	HO N N N O CH ₃
XB284	H ₃ C N N N O CH ₃
XB285	O CH ₃
XB286	N N N O CH ₃

XB287	H ₃ C N N N N N N N N N N N N N N N N N N N
XB288	CH ₃ H ₃ C N N N CH ₃
XB289	
XB290	H ₃ C N CH ₃

XB291	
	HO CH ₃
XB292 -	N N N O CH ₃
XB293	CH ₃ CH ₃
XB294	H ₃ C _O N CH ₃
XB295	O CH ₃ O CH ₃

VECCO	· · · · · · · · · · · · · · · · · · ·
XB296	CH ₃
XB297	H ₃ C N CH ₃
XB298	N N N O CH ₃
XB299	N N O CH ₃

VPCCC	
XB300	N N N N CH ₃
ЖВ301	N CH ₃
XB302	CH ₃

Table-3				
		R ³ R ²		
		R ⁴ -N N R ¹		
No. YA0001	R1	R2	R3	R4
YA0002	CH3-	H	H	CH3-
YA0003	СН3-	н	Н	CH3CH2-
YA0004	CH3-	Н	Н	74
YA0005	CH3-	Н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
YA0006	CH3-	, Н	Н	1
YA0007	CH3-	Н	Н	7
YA0008	СН3-	Н	Н	74
YA0009	СН3-	Н	Н	
YA0010	, CH3-	Н	Н	
YA0011	СН3-	Н	Н	
YA0012	CH3-	Н	Н	\triangleright
YA0013	CH3-	Н	н	◇ {
YA0014	CH3-	Н	н	
YA0015	CH3-	н	Н	<u></u>
YA0016	СН3-	Н	Н	
YA0017	CH3-	Н	Н	
YA0018	СН3-	Н	Н	F
YA0019	CH3-	Н	Н	F
YA0020	CH3-	Н	Н	F-{\}{
YA0021	CH3-	Н	Н	CI

No.	R1	R2	R3	R4
YA0022	СН3-	Н	Н	CI
YA0023	СН3-	Н	Н	C⊢ (_)—{
YA0024	СН3-	Н	Н	Br
YA0025	СН3-	Н	Н	Br.
YA0026	. CH3-	Н	Н	Br—{}
YA0027	CH3-	Н	Н	
YA0028	CH3-	н	Н	
YA0029	CH3-	Н .	Н	├ ───┼
YA0030	CH3-	Н	Н	CH ₃
YA0031	CH3-	Н	Н	H ₃ C
YA0032	CH3-	Н	н	H ₃ C—{
YA0033	CH3-	H	Н	C ₂ H ₅ —{
YA0034	CH3-	Н	Н	n-C ₃ H ₇ {_}
YA0035	CH3-	Н	Н	n-C ₄ H ₉ —{
YA0036	СН3-	н	н.	· OH →
YA0037	CH3-	Н	Н	HO
YA0038	CH3-	Н	Н	HO-{}
YA0039	CH3-	Н	Н	OCH₃
YA0040	CH3-	Н	Н	H ₃ CO
YA0041	CH3-	Н	Н	H ₃ CO-{
YA0042	СН3-	н	Н	C ₂ H ₅ O-{

No.	R1	R2	R3	R4
YA0043	CH3-	H	Н	n-C ₃ H ₇ O-
YA0044	CH3-	Н	Н	n-C ₄ H ₉ O-
YA0045	СН3-	Н	Н	NO ₂
YA0046	CH3-	Н	Н	O ₂ N
YA0047	CH3-	Н	Н	O ₂ N-{
YA0048	СН3-	Н	Н	CN
YA0049	CH3-	Н	Н	NC
YA0050	CH3-	Н .	Н	NC-{\rightarrow}-\{\).
, YA0051	СН3-	Н	н	CF ₃
YA0052	СН3-	Н	Н	F ₃ C
YA0053	СН3-	Н	Н	F ₃ C-{
YA0054	СН3-	Н	н	СООН
YA0055	CH3-	Н	Н	HOOC
YA0056	СН3-	Н	Н	H00C-{_}_\
YA0057	CH3-	Н ,	Н	CO ₂ Me
YA0058	СН3-	Н	Н	MeO ₂ C
YA0059	CH3-	Н	Н	MeO ₂ C-⟨}
YA0060	CH3-	Н	Н	CO ₂ Et
YA0061	CH3-	Н	Н	EtO ₂ C
YA0062	СН3-	Н	Н	EtO ₂ C-{}
YA0063	СН3-	Н	Н	SMe

No	R1	R2	R3	R4
1,0.				MeS
YA0064	CH3-	Н	Н	WIGO
YA0065	СН3-	н	Н	MeS-{
YA0066	CH3-	Н	Н	SO ₂ Me
YA0067	СН3-	Н	Н	MeO ₂ S
YA0068	CH3-	Н	Н	MeO ₂ S-{}
YA0069	СН3-	Н	Н	NH ₂
YA0070	CH3-	Н	Н	H ₂ N
YA0071	CH3-	н	Н	H_2N
YA0072	CH3-	Н	Н	NMe₂
YA0073	CH3-	Н	Н	Me ₂ N
YA0074	СН3-	Н	Н	Me ₂ N-⟨¯¯⟩-⊰
YA0075	CH3-	Н	Н	
YA0076	CH3-	Н	Н	CC
YA0077	СН3-	Н	Н	
YA0078	CH3-	Н	Н	() N
YA0079	CH3-	Н	Н	
YA0080	CH3-	Н	н	FO

No.	R1	R2	R3	R4
YA0081	CH3-	Н	Н	F
YA0082	CH3-	Н	Н	F C
YA0083	CH3-	Н	Н	CIO
YA0084	CH3-	Н	Н	CI

No.	R1	T00	1	
140.	T NI	R2	R3	R4
YA0085	CH3-	H	Н	CI
YA0086	СН3-	Н	Н	Br O
YA0087	СН3-	Н	н	Br
YA0088	CH3-	Н	Н	Br
YA0089	CH3-	Н	Н	CH-O
YA0090	CH3-	Н	Н	H ₃ C
YA0091	CH3-	н	н	H ₃ C
YA0092	CH3-	н	Н	CH3O O
YA0093	CH3-	н	Н	H₃CO C
YA0094	CH3-	н	Н	H ₃ CO
YA0095	CH3-	н	н	NO O
YA0096	CH3-	Н	Н	O ₂ N
YA0097	CH3-	Н	Н	O ₂ N OH O
YA0098	CH3-	Н	Н	OHO
YA0099	CH3-	Н	Н	HO
YA0100	СН3-	Н	Н	но
YA0101	СН3-	н	Н	NH-0

No.	R1	R2	R3	R4
YA0102	CH3~	Н	Н	H₂N
YA0103	CH3-	Н	Н	H ² N ,
YA0104	CH3-	Н	Н	CNO
YA0105	СН3	Н	Н	NC C

No.	R1	R2		1 54
			1 70	R4 O
YA0106	CH3-	Н	Н	NC F.
YA0107	CH3-			
170107	Uns-	Н	Н	D. A.
YA0108	СН3-	н	Н	
	-			
YA0109	СН3-	Н	н	
				0
YA0110	CH3-	Н	Н	
				O.
YA0111	CH3-	Н	Н	
YA0112	OUA			, Q
TAUTIZ	CH3-	Н	Н	X 34
YA0113	CH3-	н	Н	<u> </u>
				-
YA0114	CH3-	н	Н	
YA0115	СН3-	н	н	>\\\\\
				0
YA0116	CH3-	Н	н	~
				Q
YA0117	CH3-	Н	н	~~~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
YA0118	OUIO			O O O
1A0118	CH3-	Н	Н	
YA0119	CH3-	Н	Н	Q
		11	п	
YA0120	СН3-	н	Н	
				IJ F
YA0121	CH3-	Н	н	
				<u> </u>
YA0122	СН3-	н	н	

No.	R1	R2	R3	R4
YA0123	снз~	H³CO_}`-	Н	Н
YA0124	CH3-	H³CO, ≻	Н	СН3-
YA0125	CH3-	H³CO,≻	Н	CH3CH2-
YA0126	СН3-	H ₃ CO ×	Н	∕ ∕∖\

No.	R1	R2	R3	R4
YA0127	CH3-	O H ₃ CO ,	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
YA0128	СН3-	O H₃CO y	Н	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
YA0129	CH3-	H₃COÜ≻	Н	_\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
YA0130	CH3-	H ₃ CO >	н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
YA0131	CH3-	H³CO, ≻	Н	7
YA0132	CH3-	H³CO, >	Н	
YA0133	CH3-	H³CO, ≻.	н	
YA0134	CH3-	H3CO ,	Н	
YA0135	CH3-	H³CO_>,	Н	$\triangleright \rightarrow$
YA0136	CH3-	O H₃CO →	Н	\Diamond -4
YA0137	CH3-	O H₃CO →	Н	
YA0138	CH3-	H³CO_}\	н	
YA0139	CH3-	H³CO >	Н	
YA0140	CH3-	H³CO_}`-	Н	
YA0141	CH3-	O H³CO ,	Н	<u></u>
YA0142	CH3-	O H ₃ CO ,	Н	F
YA0143	CH3-	H³CO ≻ O	H	F-\
YA0144	CH3-	H³CO_}`-	Н	CI
YA0145	CH3-	H³CO, ≻	Н	CI
YA0146	CH3-	H³CO, ≻ O	Н	C├
YA0147	CH3-	H³CO, ≻	Н	Br

YA0148 CH3- H ₃ CO H British YA0149 CH3- H ₃ CO H British YA0150 CH3- H ₃ CO H H ₃ CO YA0151 CH3- H ₃ CO H H ₃ CO YA0152 CH3- H ₃ CO H C ₂ H ₅ YA0153 CH3- H ₃ CO H C ₂ H ₅ YA0154 CH3- H ₃ CO H C ₂ H ₅ YA0155 CH3- H ₃ CO H C ₄ H ₉ YA0156 CH3- H ₃ CO H H ₃ CO YA0157 CH3- H ₃ CO H H ₃ CO YA0158 CH3- H ₃ CO H H ₃ CO YA0169 CH3- H ₃ CO H C ₂ H ₅ O YA0160 CH3- H ₃ CO H C ₂ H ₅ O YA0161 CH3- H ₃ CO H C ₂ H ₅ O YA0162 CH3- H ₃ CO H C ₂ H ₅ O YA0163	Г	No.	D1			
YA0149 CH3- H₃CO → H F H F H F H F F H F	┝	IVO.	R1	R2	R3	R4
YA0150 CH3- H ₃ CO ¹ / ₂ H CH ₃ / ₄ YA0151 CH3- H ₃ CO ¹ / ₂ H H ₃ CO ¹ / ₂ YA0152 CH3- H ₃ CO ¹ / ₂ H H ₃ CO ¹ / ₂ YA0153 CH3- H ₃ CO ¹ / ₂ H C ₂ H ₅ YA0154 CH3- H ₃ CO ¹ / ₂ H DC ₄ H ₉ YA0155 CH3- H ₃ CO ¹ / ₂ H DC ₄ H ₉ YA0156 CH3- H ₃ CO ¹ / ₂ H H ₃ CO ¹ / ₂ YA0157 CH3- H ₃ CO ¹ / ₂ H H ₃ CO ¹ / ₂ YA0168 CH3- H ₃ CO ¹ / ₂ H DC ₂ H ₅ O ¹ / ₂ YA0161 CH3- H ₃ CO ¹ / ₂ H DC ₂ H ₇ O ¹ / ₂ YA0162 CH3- H ₃ CO ¹ / ₂ H DC ₂ N ¹ / ₂ YA0164 CH3- H ₃ CO ¹ / ₂ H DC ₂ N ¹ / ₂ YA0165 CH3- H ₃ CO ¹ / ₂ H DC ₂ N ¹ / ₂ YA0166 CH3- H ₃ CO ¹ / ₂ H DC ₂ N ¹ / ₂ YA0167 CH3- H ₃ CO ¹ / ₂ H DC ₂ N ¹ / ₂		YA0148	CH3-	H³CO_}^	Н	Br.
YA0151 CH3 ⁻ H ₃ CO ⁻ H H ₃ C H H H ₃ C H		YA0149	CH3-	H³CO, ²-	Н	Br─⟨_}
YA0152 CH3- H ₃ CO H H H H H H H H H H H C H		YA0150	CH3-	O H₃CO →	Н	⟨ _>-₁
YA0153 CH3- H ₃ CO → H C ₂ H ₅ → H YA0154 CH3- H ₃ CO → H n-C ₃ H ₇ → H YA0155 CH3- H ₃ CO → H n-C ₄ H ₉ → H YA0156 CH3- H ₃ CO → H H ₃ CO → H H ₃ CO → YA0157 CH3- H ₃ CO → H H ₃ CO → H H ₃ CO → H YA0158 CH3- H ₃ CO → H C ₂ H ₅ O → H YA0160 CH3- H ₃ CO → H n-C ₃ H ₇ O → H YA0161 CH3- H ₃ CO → H n-C ₄ H ₉ O → H YA0162 CH3- H ₃ CO → H n-C ₄ H ₉ O → H YA0163 CH3- H ₃ CO → H n-C ₄ H ₉ O → H YA0165 CH3- H ₃ CO → H n-C ₄ H ₉ O → H YA0166 CH3- H ₃ CO → H n-C ₄ H ₉ O → H YA0167 CH3- H ₃ CO → H n-C ₄ H ₉ O → H YA0167 CH3-		YA0151	CH3-	H ₃ CO ¹ / ₂	Н	H ₃ C
YA0154 CH3- H3CO → H n-C3H7 → H YA0155 CH3- H3CO → H n-C4H9 → H YA0156 CH3- H3CO → H H3CO → H YA0157 CH3- H3CO → H H3CO → H YA0158 CH3- H3CO → H C2H5O → H YA0159 CH3- H3CO → H n-C3H7O → H YA0160 CH3- H3CO → H n-C4H9O → H YA0161 CH3- H3CO → H NO2 H YA0162 CH3- H3CO → H O2N → H YA0163 CH3- H3CO → H O2N → H YA0164 CH3- H3CO → H NC → H YA0165 CH3- H3CO → H NC → H YA0167 CH3- H3CO → H NC → H YA0167 CH3- H3CO → H NC → H YA0167 CH3- H3CO → H NC → H		YA0152	CH3-	H ₃ CO ¹ >	Н	H ₃ C-{{{}}
YA0155 CH3- H ₃ CO H n-C ₄ H ₉ - 1 YA0156 CH3- H ₃ CO H OCH ₃ H YA0157 CH3- H ₃ CO H H ₃ CO H YA0158 CH3- H ₃ CO H H ₃ CO H YA0159 CH3- H ₃ CO H n-C ₂ H ₅ O H YA0160 CH3- H ₃ CO H n-C ₃ H ₇ O H YA0161 CH3- H ₃ CO H NO ₂ H YA0162 CH3- H ₃ CO H NO ₂ H YA0163 CH3- H ₃ CO H CN H YA0164 CH3- H ₃ CO H CN H YA0165 CH3- H ₃ CO H NC H YA0167 CH3- H ₃ CO H NC H NMe ₂ NMe ₂ NMe ₂ NMe ₂		YA0153	СН3-	H ₃ CO /	H	C ₂ H ₅ —{
YA0155 CH3- H ₃ CO H n-C ₄ H ₉ - 1 YA0156 CH3- H ₃ CO H OCH ₃ H YA0157 CH3- H ₃ CO H H ₃ CO H YA0158 CH3- H ₃ CO H H ₃ CO H YA0159 CH3- H ₃ CO H n-C ₂ H ₅ O H YA0160 CH3- H ₃ CO H n-C ₃ H ₇ O H YA0161 CH3- H ₃ CO H NO ₂ H YA0162 CH3- H ₃ CO H NO ₂ H YA0163 CH3- H ₃ CO H CN H YA0164 CH3- H ₃ CO H CN H YA0165 CH3- H ₃ CO H NC H YA0167 CH3- H ₃ CO H NC H NMe ₂ NMe ₂ NMe ₂ NMe ₂		YA0154	CH3-	H ₃ CO >	Н	n-C ₃ H ₇ —{{}}
YA0156 CH3- H ₃ CO H		YA0155	СН3-	1 0	н	
YA0158 CH3- H_3CO^{-} H H_3CO^{-} H H_3CO^{-} H H_3CO^{-} H H_3CO^{-} H H_3CO^{-} H </td <td></td> <td>YA0156</td> <td>CH3-</td> <td>H₃CO ,</td> <td>Н</td> <td>OCH₃</td>		YA0156	CH3-	H ₃ CO ,	Н	OCH₃
YA0159 CH3- H_3 CO H C_2H_5O $+$ YA0160 CH3- H_3 CO $+$ <	L	YA0157	CH3-	O H₃CO →	Н	H ₃ CO
YA0160 CH3- H_3CO^{-1} H $n-C_3H_7O^{-1}$ YA0161 CH3- H_3CO^{-1} H $n-C_4H_9O^{-1}$ YA0162 CH3- H_3CO^{-1} H O_2N YA0163 CH3- H_3CO^{-1} H O_2N YA0164 CH3- H_3CO^{-1} H O_2N YA0165 CH3- H_3CO^{-1} H O_2N YA0166 CH3- H_3CO^{-1} H O_2N YA0167 CH3- H_3CO^{-1} H O_2N	L	YA0158	CH3-	H³CO \\\	Н	H ₃ CO-{{}
YA0160 CH3- H_3CO^{-1} H $n-C_3H_7O^{-1}$ YA0161 CH3- H_3CO^{-1} H $n-C_4H_9O^{-1}$ YA0162 CH3- H_3CO^{-1} H O_2N YA0163 CH3- H_3CO^{-1} H O_2N YA0164 CH3- H_3CO^{-1} H O_2N YA0165 CH3- H_3CO^{-1} H O_2N YA0166 CH3- H_3CO^{-1} H O_2N YA0167 CH3- H_3CO^{-1} H O_2N		/A0159	CH3-	H ₃ CO Y	Н	C ₂ H ₅ O-{
YA0162 CH3- H_3CO H NO_2 YA0163 CH3- H_3CO H O_2N YA0164 CH3- H_3CO H O_2N YA0165 CH3- H_3CO H CN YA0166 CH3- H_3CO H NC YA0167 CH3- H_3CO H NC YA0167 $CH3 H_3CO$ H NC	,	⁄A0160	CH3-	. 0	Н	n-C ₃ H ₇ O-
YA0163 CH3- H_3 CO	Y	'A0161	CH3-	H³CO, ≻ O	Н	n-C ₄ H ₉ O-{{}}
YA0164 CH3- H_3 CO H O_2 N- H YA0165 CH3- H_3 CO H O_2 N- H YA0166 CH3- H_3 CO H H H YA0167 CH3- H_3 CO H H H H YA0167 H_3 CO H	Y	'A0162	CH3-	H ₃ CO ,	Н	NO ₂
YA0164 CH3- $H_3CO^{\circ}_{\mathcal{F}}$ H $O_2N-\bigcirc_{\mathcal{F}}$ YA0165 CH3- $H_3CO^{\circ}_{\mathcal{F}}$ H CN YA0166 CH3- $H_3CO^{\circ}_{\mathcal{F}}$ H NC YA0167 CH3- $H_3CO^{\circ}_{\mathcal{F}}$ H NC NMea $NMea$	Y	A0163	CH3-	H ₃ CO ,	Н	O ₂ N
YA0165 CH3- H ₃ CO - H	Y	A0164	CH3-	O H ₃ CO ^T >	Н	O ₂ N-{}
YA0166 CH3- H ₃ CO H NC H NC H NC NMe ₀	Υ.	A0165	CH3-	H³CO \\\	Н	CN
YA0167 CH3- H ₃ CO → H NC- → NMe ₂	Y,	A0166	CH3-	O H₃CO √	Н	NC
YA0168 CH3- H ₃ CO H NMe ₂	Υ,	40167	СН3-	O H ₃ CO ,	Н	NC-{}
	Y/	A0168	СН3-	H³CO_}\	H	NMe ₂

No.	R1	R2	R3	
YA0169	CH3-	H ₃ CO 'y	Н	Me ₂ N
YA0170	CH3-	H3CO, >	Н	Me₂N-{
YA0171	СН3-	H³CO, ≻	Н	
YA0172	СН3-	H³CO, ≻	Н	CC '
YA0173	CH3-	H³CO, ≻	Н	Oly
YA0174	CH3-	O H₃CO →	Н	Qi,
YA0175	CH3-	O H₃CO ≻′	Н	Oly
YA0176	CH3-	H³CO_≻	Н	O _r
YA0177	СН3-	O H₃CO ≻	Н	<u>\</u>
YA0178	СН3-	O C₂H₅O r	Н	Н
YA0179	CH3-	O C₂H₅O ∵	Н	СН3-
YA0180	СН3-	O C ₂ H ₅ O - 7	Н	CH3CH2-
YA0181	CH3-	O C₂H₅O →	Н	∕ ∖\
YA0182	CH3-	O C ₂ H ₅ O 7	н	74
YA0183	CH3-	C ₂ H ₅ O y	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
YA0184	CH3-	O C₂H₅O [™] ≻	Н	L _r

No.	R1	R2 -	R3	R4
YA0185	CH3-	O C ₂ H ₅ O ,	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
YA0186	CH3-	O C ₂ H ₅ O 7	Н	7'
YA0187	CH3-	O C ₂ H ₅ O	Н	
YA0188	CH3-	O C ₂ H ₅ O 7	H	
YA0189	CH3-	O C ₂ H ₅ O 7	Н	

No.	R1	R2		
	 -	RZ C	R3	R4
YA0190	CH3-	C ₂ H ₅ O [™] >″	Н	\rightarrow
YA0191	СН3-	O C ₂ H ₅ O ,	Н	◇ !
YA0192	СН3-	O C ₂ H ₅ O ->	Н	
YA0193	CH3-	C ₂ H ₅ O ,	Н	
YA0194	CH3-	C ₂ H ₅ O ,	Н	
YA0195	СН3-	O C ₂ H ₅ O ,	Н	
YA0196	CH3-	O C ₂ H ₅ O ,	Н	F
YA0197	CH3-	C ₂ H ₅ O	Н	F
YA0198	CH3-	O C ₂ H ₅ O	Н	F—()—;
YA0199	CH3-	O C ₂ H ₅ O //	Н	CI <>→
YA0200	CH3-	C ₂ H ₅ O ,	Н	CI
YA0201	CH3-	O C₂H₅O →	н	
YA0202	CH3-	O C ₂ H ₅ O >	н	Br
YA0203	CH3-	C ₂ H ₅ O →	H	Br. →
YA0204	CH3-	O C ₂ H ₅ O / >-	Н	3r-<
YA0205	СН3-	O C ₂ H ₅ O /	Н	CH ₃
YA0206	CH3-	C ₂ H ₅ O ,	H	
YA0207	CH3-	O C ₂ H ₅ O	н	1 ₃ C-{}-{
YA0208	CH3-	O C ₂ H ₅ O >	н С	G2H5—{
YA0209	CH3-	O C ₂ H ₅ O	H n-	-C ₃ H ₇ {
YA0210	СН3-	C ₂ H ₅ O >	H n-	-C ₄ H ₉ {}

No.	R1	R2	R3	R4
YA0211	CH3-	O C₂H₅O ✓	Н	OCH ₃
YA0212	CH3-	O C ₂ H ₅ O →	Н	H ₃ CO
YA0213	CH3~	O C₂H₅O ∕r	Н	H ₃ CO-{
YA0214	CH3-	O C₂H₅O r	Н	C ₂ H ₅ O-{
YA0215	СН3-	O C₂H₅O ≻	Н	n-C ₃ H ₇ O-
YA0216	CH3-	O C₂H₅O ∵	н	n-C ₄ H ₉ O-
YA0217	СН3-	O C₂H₅O ≻	Н	NO ₂
YA0218	CH3-	O C₂H₅O →	Н	O ₂ N{{
YA0219	CH3-	O C₂H₅O r	Н	O ₂ N-{
YA0220	CH3-	O C₂H₅O ≻	Н	CN
YA0221	СН3-	O C₂H₅O →	Н	NC.
YA0222	CH3-	O C₂H₅O ≻	н	NC-{\rightarrow}
YA0223	СН3-	O C₂H₅O →	н	NMe ₂
YA0224	СН3-	O C₂H₅O →	Н	Me ₂ N
YA0225	СН3-	O C₂H₅O √√	Н	Me₂N-⟨¯¯
YA0226	СН3-	O C ₂ H ₅ O 7	Н	

No.	R1	R2	R3	R4
YA0227	CH3-	O C₂H₅O r	Н	CCY
YA0228	CH3-	O C₂H₅O ≻	Н	
YA0229	СН3-	O C ₂ H ₅ O 7	Н	
YA0230	CH3-	O C ₂ H ₅ O - 7	Н	
YA0231	CH3-	O C ₂ H ₅ O - 7	Н	<u>,</u>

No.	R1	R2	R3	R4
YA0232	СН3-	C ₂ H ₅ O	Н	, , , , , , , , , , , , , , , , , , ,
YA0233	CH3-	CH3-	Н	Н
YA0234	СН3-	СН3СН2-	Н	Н
YA0235	CH3-	∕ ∖∖\	Н	н
YA0236	CH3-	7'1	Н	Н
YA0237	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
YA0238	CH3-	人、	н	Н
YA0239	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
YA0240	CH3-	7	Н	Н
YA0241	CH3-	∕ √∕\	Н	Н
YA0242	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Н
YA0243	СН3-	Xx	Н	Н
YA0244	CH3-	→	Н	Н
YA0245	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
YA0246	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
YA0247	CH3-	^ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
YA0248	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
YA0249	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
YA0250	СН3-	٠,٠٠٠	Н	Н
YA0251	снз-		Н	Н
YA0252	CH3-)\rightarrow\rightarro	Н	Н

YA0253 CH3- H	No.	R1	R2	R3	R4
YA0255 CH3- H H H YA0256 CH3- H H H YA0257 CH3- H H H YA0258 CH3- H H H YA0259 CH3- H H H YA0260 CH3- H H H YA0261 CH3- H H H YA0262 CH3- H H H YA0263 CH3- H H H YA0264 CH3- H H H YA0265 CH3- H H H YA0266 CH3- H H H YA0267 CH3- H H H YA0269 CH3- CH- H H H YA0270 CH3- CH- H H H YA0272 CH3- BF H H H YA0273 <td>YA0253</td> <td></td> <td></td> <td></td> <td></td>	YA0253				
YA0256 CH3- H H H YA0257 CH3- H H H YA0258 CH3- H H H YA0259 CH3- H H H YA0260 CH3- H H H YA0261 CH3- H H H YA0262 CH3- H H H YA0263 CH3- H H H YA0264 CH3- H H H YA0265 CH3- H H H YA0266 CH3- H H H YA0267 CH3- H H H YA0268 CH3- H H H YA0270 CH3- CH- H H H YA0271 CH3- CH- H H H YA0273 CH3- BF H H H	YA0254	СН3-	\triangleright	н	Н
YA0257 CH3- H H H YA0258 CH3- H H H YA0259 CH3- H H H YA0260 CH3- H H H YA0261 CH3- H H H YA0262 CH3- H H H YA0263 CH3- H H H YA0264 CH3- H H H YA0265 CH3- H H H YA0266 CH3- H H H YA0267 CH3- H H H YA0268 CH3- H H H YA0270 CH3- CH- H H H YA0271 CH3- CH- H H H YA0273 CH3- CH3- H H H	YA0255	CH3-	\Diamond	Н	Н
YA0258 CH3- H H H YA0259 CH3- H H H YA0260 CH3- H H H YA0261 CH3- H H H YA0262 CH3- H H H YA0263 CH3- H H H YA0264 CH3- H H H YA0265 CH3- H H H YA0266 CH3- CH3- H H H YA0267 CH3- CH3- H H H YA0268 CH3- CH3- H H H YA0270 CH3- CH3- H H H YA0271 CH3- CH3- H H H YA0273 CH3- BF H H H	YA0256	СН3-	$\bigcirc \dashv$	Н	Н
YA0259 CH3- H H H YA0260 CH3- H H H YA0261 CH3- H H H YA0262 CH3- H H H YA0263 CH3- H H H YA0264 CH3- H H H YA0265 CH3- H H H YA0266 CH3- CH3- H H H YA0267 CH3- CH3- H H H YA0268 CH3- CH3- H H H YA0270 CH3- CH3- H H H YA0271 CH3- CH3- H H H YA0273 CH3- BT H H H	YA0257	СН3-		Н	Н
YA0260 CH3- H H H YA0261 CH3- H H H YA0262 CH3- H H H YA0263 CH3- H H H YA0264 CH3- H H H YA0265 CH3- H H H YA0266 CH3- CH3- H H H YA0267 CH3- CH3- H H H YA0268 CH3- CH3- H H H YA0270 CH3- CH3- H H H YA0271 CH3- CH3- H H H YA0272 CH3- H H H H YA0273 CH3- H H H H H	YA0258	CH3-		Н	Н
YA0261 CH3- H H H YA0262 CH3- H H H YA0263 CH3- H H H YA0264 CH3- H H H YA0265 CH3- H H H YA0266 CH3- CH H H H YA0267 CH3- CH H H H YA0268 CH3- CH H H H YA0270 CH3- CH H H H YA0271 CH3- CH H H H YA0273 CH3- BF H H H	YA0259	СН3-	△ -₁	Н	Н
YA0262 CH3- F H H YA0263 CH3- F H H YA0264 CH3- F H H YA0265 CH3- F H H YA0266 CH3- F H H YA0267 CH3- CH3- H H YA0268 CH3- CH3- H H H YA0269 CH3- CH3- CH3- H H H YA0271 CH3- CH3- CH3- H H H YA0273 CH3- CH3- H H H	YA0260	СН3-		Н	Н
YA0262 CH3- H H YA0263 CH3- H H YA0264 CH3- H H YA0265 CH3- H H YA0266 CH3- H H YA0267 CH3- CI H H YA0268 CH3- CH3- H H H YA0269 CH3- CH3- CH3- H H H YA0270 CH3- CH3- CH3- H H H YA0271 CH3- CH3- H H H YA0273 CH3- BF H H H	YA0261	СН3-	<u></u>	Н	Н
YA0264 CH3- F- H H YA0265 CH3- F- H H YA0266 CH3- F- H H YA0267 CH3- CH3- H H YA0268 CH3- CH3- H H YA0269 CH3- CH3- H H YA0270 CH3- CH3- H H H YA0271 CH3- CH3- H H H YA0273 CH3- Br H H H	YA0262	СН3-	F	Н	Н
YA0265 CH3- F- → H H H YA0266 CH3- F- → H H H YA0267 CH3- CI H H YA0268 CH3- CH- → H H H YA0269 CH3- CH- → H H H YA0270 CH3- CH- → H H H YA0271 CH3- CH- → H H H YA0272 CH3- Br H H H YA0273 CH3- Br H H H	YA0263	CH3-	F	Н	Н
YA0265 CH3- H H H YA0266 CH3- F- III-like H H YA0267 CH3- CH3- H H H YA0268 CH3- CH3- H H H YA0269 CH3- CH3- CH3- H H H YA0270 CH3- CH3- CH3- H H H H YA0271 CH3- CH3- H H H H H YA0273 CH3- Br H H H H H	YA0264	CH3-	F—{}	Н	Н
YA0267 CH3- CI H H YA0268 CH3- CI H H YA0269 CH3- CI- H H YA0270 CH3- CI- H H YA0271 CH3- CI- H H YA0272 CH3- Br H H YA0273 CH3- Br H H	YA0265	CH3-	F-(-)(-)	Н	
YA0267 CH3- H H YA0268 CH3- CI H H YA0269 CH3- CI- H H YA0270 CH3- CI- H H YA0271 CH3- CI- H H YA0272 CH3- Br H H YA0273 CH3- Br H H	YA0266	CH3-		Н	н
YA0268 CH3- H H YA0269 CH3- CH- H H YA0270 CH3- CH- H H YA0271 CH3- CH3- H H YA0272 CH3- H H H YA0273 CH3- Br H H	YA0267	CH3-		Н	
YA0270 CH3- CH3- CH3- H H H YA0271 CH3- CH3- H H YA0272 CH3- Br H H YA0273 CH3- Br H H	YA0268	CH3-	<u>}</u>	н	Н
YA0271 CH3− CH3− CH3− H H YA0272 CH3− Br YA0273 CH3− Br	YA0269	CH3-	C⊢∕}	. Н	Н
YA0272 CH3- Br H H YA0273 CH3- Br	YA0270	СН3-	C-(н	Н
YA0272 CH3- H H YA0273 CH3- Br	YA0271	СН3-		н	Н
YA0273 CH3-	YA0272	СН3-	<i> </i>	Н	Н
	YA0273	СН3-	Br.	Н	Н

No.	R1	R2	R3	R4
YA0274	СН3-	Br—{	Н	Н
YA0275	СН3-	Br—{	Н	Н
YA0276	СН3-	Br—{	Н	Н
YA0277	СН3-		Н	Н
YA0278	СН3-	 	Н	Н
YA0279	СН3-		Н	Н
YA0280	CH3-	CH ₃	Н	Н
YA0281	СН3-	H ₃ C	Н	Н
YA0282	СН3-	H ₃ C-{	Н	Н
YA0283	СН3-	C ₂ H ₅ —{	Н	Н
YA0284	CH3-	n-C ₃ H ₇ {}	Н	Н
YA0285	CH3-	n-C ₄ H ₉ —{}	Н	Н
YA0286	СН3-	OH →	Н	н .
YA0287	CH3-	HO	Н	Н
YA0288	СН3-	HO-{}	Н	Н
YA0289	CH3-	OCH ₃	Н	Н
YA0290	СН3-	H ₃ CO	Н	Н
YA0291	CH3-	H₃CO-⟨}-{	Н	Н
YA0292	CH3-	H₃CO-⟨ <mark>}</mark> -{	Н	Н
YA0293	СН3-	H₃CO-∕∑\…{	н	Н
YA0294	CH3-	OC ₂ H ₅	Н	Н

No.	R1	R2	R3	R4
YA0295	CH3-	C ₂ H ₅ O	Н	H
YA0296	СН3-	C ₂ H ₅ O-{{}}	Н	. Н
YA0297	СН3-	n-C ₃ H ₇ O-{}{	Н	Н
YA0298	CH3-	n-C ₄ H ₉ O-\{	Н	Н
YA0299	CH3-	NO ₂	Н	Н
YA0300	CH3-	O ₂ N	Н	Н
YA0301	CH3-	O ₂ N-{	Н	Н
YA0302	СН3-	CN →{	н	Н
YA0303	CH3-	NC	Н	Н
YA0304	СН3-	NC-{_}{	н	Н
YA0305	CH3-	CF ₃	Н	Н
YA0306	СН3-	F ₃ C	Н	Н
YA0307	CH3-	F ₃ C-{}_{	Н	н
YA0308	СН3-	СООН	Н	Н
YA0309	СН3-	HOOC ———————————————————————————————————	Н	Н
YA0310	СН3-	HOOC-{_}	Н	Н
YA0311	CH3-	CO ₂ Me	Н	Н
YA0312	CH3-	MeO ₂ C	Н	Н
YA0313	CH3-	MeO ₂ C-{}	Н	Н
YA0314	CH3-	CO ₂ Et	Н	Н
YA0315	CH3-	EtO ₂ C	Н	Н

No.	R1	R2	R3	R4
YA0316	СН3-	EtO ₂ C-{	Н	Н
YA0317	СН3-	SMe ∠_}-∤	Н	Н
YA0318	CH3-	MeS	Н	Н
YA0319	снз-	MeS-{}{	Н	Н
YA0320	CH3-	SO ₂ Me	Н	Н
YA0321	CH3-	MeO ₂ S {}	Н	Н
YA0322	CH3-	MeO ₂ S-{{}	Н	Н
YA0323	CH3-	NH ₂	Н	Н
YA0324	CH3-	H ₂ N →	Н	Н
YA0325	CH3-	H_2N-	Н	Н
YA0326	CH3-	NMe ₂	Н	Н
YA0327	CH3-	Me ₂ N	Н	Н
YA0328	CH3-	Me ₂ N-{	Н	Н
YA0329	CH3-	(N-\)	Н	Н
YA0330	CH3-	(N-()	Н	Н
YA0331	CH3-	_N-{_}-{	н	Н
YA0332	CH3-	_n-<_>	Н	Н
YA0333	CH3-	_N-<	Н	Н
YA0334	CH3-	_N-_}{	Н	Н
YA0335	CH3-	O_N-{_>	Н	Н
YA0336	CH3-		Н	Н

No.	R1	R2	R3	R4
YA0337	CH3-	O_N-{_}-{	Н	н
YA0338	снз-	H₃CN_N-	Н	н
YA0339	CH3-	H3CN N-	Н	Н
YA0340	CH3-	H ₃ CN_N-{}	Н	Н
YA0341	CH3-	H ₃ C_CH ₃	Н	н
YA0342	CH3-	H ₃ C-{\rightarrow}-f	Н	Н
YA0343	СН3-	CH ₃ H ₃ C	H	Н
YA0344	СН3-	CH₃ CH₃	Н	Н
YA0345	CH3-	H ₃ C H ₃ C-{}	Н	Н
YA0346	CH3-	H ₃ C H ₃ C	н	Н
YA0347	CH3-	FF	Н	Н
YA0348	CH3-	F——;	Н	н
YA0349	CH3-	F F	Н	н
YA0350	CH3-	F	Н	Н
YA0351	СН3-	F—	Н	Н
YA0352	CH3-	F	Н	Н

No.	R1	R2	R3	R4
YA0353	CH3-	CI CI	Н	Н
YA0354	СН3-	CI CI	Н	Н
YA0355	CH3-	CI CI	Н	Н
YA0356	CH3-	CI CI	Н	Н
YA0357	CH3-	CI CI	Н	Н

No.	R1	R2	R3	R4
YA0358	СН3-	CI	Н	Н
YA0359	СН3-	H ₃ CO_OCH ₃	Н	н
YA0360	СН3-	OCH₃ H₃CO-{}}	Н	н
YA0361	CH3-	OCH ₃ H ₃ CO	Н	н
YA0362	CH3~	OCH ₃	Н	н
YA0363	CH3-	H₃CO H§CO H§CO	Н	н
YA0364	СН3	H ₃ CO	Н	н
YA0365	СН3-	F_OCH₃	Н	Н
YA0366	CH3-	OCH₃ F—	Н	Н
YA0367	СН3-	OCH ₃	Н	Н
YA0368	CH3-	OCH ₃ F—∑…{	Н	Н
YA0369	CH3-	OCH ₃	Н	н.
YA0370	СН3~	OCH₃ → F	Н	н
YA0371	СН3-	H₃CO F——}	Н	н
YA0372	CH3-	H ₃ CO F	Н	Н
YA0373	CH3-	H₃CO_F	Н	Н

No.	R1	R2	R3	R4
YA0374	СН3-	H₃CO-⟨S	Н	н
YA0375	СН3-	H ₃ CO	Н	Н
YA0376	CH3-	H ₃ CO√	Н	Н
YA0377	СН3-	CI_OCH ₃	Н	н
YA0378	CH3-	OCH₃ CI—	Н	Н

No.	R1	R2	R3	R4
YA0379	CH3-	OCH ₃	Н	Н
YA0380	CH3-	OCH₃ CI	Н	н
YA0381	CH3-	H₃CO CI—Ş	Н	н
YA0382	СН3-	H ₃ CO	Н	Н
YA0383	СН3-	H ₃ CO_CI	н	Н
YA0384	СН3-	H₃CO-⟨¯}	Н	Н
YA0385	СН3-	,CI → H₃CO	Н	Н
YA0386	CH3-	CI H ₃ CO-	Н	Н
YA0387	CH3-	F_CH ₃	Н	Н
YA0388	CH3~	CH ₃ F—∰	Н	Н
YA0389	СН3-	CH₃ F	Н	Н
YA0390	CH3-	CH ₃	Н	Н
YA0391	СН3-	H ₃ C F—{}	Н	Н
YA0392	СН3-	H ₃ C F	Н	Н
YA0393	CH3-	H ₃ C_F	Н	Н
YA0394	CH3-	H ₃ C-⟨SF	H .	н

No.	R1	R2	R3	R4
YA0395	СН3-	H₃C F	Н	Н
YA0396	СН3-	F, H₃C-√→	Н	Н
YA0397	CH3-	Br_OCH ₃	Н	H
YA0398	CH3-	OCH ₃	Н	Н
YA0399	СН3-	OCH₃ ⇒⇒ Br	Н	н

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No.	R1	R2	R3	R4
YA0400	СН3-	OCH₃ Br	Н	Н
YA0401	CH3-	H₃CO Br—	Н	Н
YA0402	CH3-	H₃CO Br	Н	Н
YA0403	CH3-	H ₃ CO_Br	Н	Н
YA0404	СН3-	H ₃ CO-\Br	Н	Н
YA0405	CH3-	Br H₃CO	Н	Н
YA0406	СН3-	H ₃ CO-	Н	Н
YA0407	СН3-	H ₃ CO }	Н	Н
YA0408	СН3-	OCH ₃	Н	Н
YA0409	СН3-	N-C-OCH3	Н	Н
YA0410	СН3-	H ₃ CO > N	Н	Н
YA0411	СН3-	H ₃ CO	н	Н
YA0412	СН3-	OCH₃	Н	Н
YA0413	СН3-	F	Н	Н
YA0414	CH3-	OCH ₃ F——}	Н	Н

No.	R1	R2	R3	R4
YA0415	CH3-	H₃CO-⟨Ş F	Н	Н
YA0416	СН3-	OCH ₃ F-⟨_}-} OCH ₃	Н	Н
YA0417	CH3-	OCH ₃ H₃CO-⟨_}-} OCH ₃	Н	Н
YA0418	CH3~	CI CI	Н	Н
YA0419	СН3-	OCH₃ CI— CI	Н	Н
YA0420	СН3-	CI H₃CO-⟨}; CI	Н	Н

No.	R1	R2	R3	R4
YA0421	CH3-	OCH ₃ CI	Н	Н
YA0422	CH3-	OCH ₃ H ₃ CO-{_}-} OCH ₃	Н	Н
YA0423	CH3-	OCH ₃	Н	Н
YA0424	CH3-	H₃CO ————————————————————————————————————	Н	н
YA0425	CH3-	H ₃ CO-{_}-{	Н	н
YA0426	CH3-	OCH ₃ ?	Н	Н
YA0427	СН3-	H ₃ CO	Н	Н
YA0428	СН3-	H₃CO-⟨\$\rightarrow\rightarro\rightarro\rightarrow\rightarro\	Н	Н
YA0429	CH3-	OCH ₃	Н	Н
YA0430	CH3-	H₃CO_	Н	Н
YA0431	СН3-	н₃со-⟨Ѕ∕-⟨Ѕ	Н	Н
YA0432	СН3-	F	Н	н
YA0433	СН3-	F	Н	Н
YA0434	СН3-	F-{\}-{\}-{\}	Н	Н
YA0435	СН3-	₫	Н	Н
YA0436	CH3-	F	Н	Н

No.	R1	R2	R3	R4
YA0437	CH3-	F-{	Н	Н
YA0438	CH3	\$	Н	Н
YA0439	CH3-		Н	Н
YA0440	CH3-	F-(C)-(C)	Н	Н
YA0441	CH3-		Н	Н

No.	R1	R2	R3	R4
YA0442	CH3-	CCC	Н	Н
YA0443	СН3-	H N }	Н	Н
YA0444	СН3-	HN	Н	Н
YA0445	СН3-	Q.	Н	Н
YA0446	CH3-	6 7	Н	Н
YA0447	СН3-	S	Н	Н
YA0448	СН3-	S ,	Н	Н
YA0449	СН3-	HNN	Н	Н
YA0450	CH3-	HN,	Н	Н
YA0451	СН3-	/=N HN	Н	Н
YA0452	CH3-	N N	Н	Н
YA0453	CH3-	O _N	Н	Н
YA0454	CH3-	N= O,	Н	Н
YA0455	CH3-	NO NO	Н	Н
YA0456	СН3-	S _N ,	Н	Н
YA0457	CH3-	N= S	Н	Н
YA0458	CH3-	N-S	Н	Н
YA0459	СН3-	/=N O, ∕, _f	н	Н
YA0460	СН3-	O Y	Н	Н
YA0461	СН3-	N Z	н	Н
YA0462	СН3-	S ,	Н	Н

No.	R1	R2	R3	R4
YA0463	СН3-	S S	Н	Н
YA0464	СН3-	N S	Н	Н
YA0465	СН3-	<u>~</u> }-₹	Н	Н
YA0466	СН3-	√ }-{	Н	H
YA0467	СН3-		Н	Н
YA0468	СН3-	⟨N/4	Н	Н
YA0469	СН3-	N_N_{	Н	Н
YA0470	СН3-	N-	Н	Н
YA0471	CH3-	CT ^P	Н	Н
YA0472	CH3-		Н	Н
YA0473	CH3-	T N	н	Н
YA0474	CH3-	L N	н	Н
YA0475	CH3-	, CTN	Н	Н
YA0476	CH3-		Н	Н
YA0477	СН3-		н	Н
YA0478	CH3-		Н	Н
YA0479	СН3-		Н	Н
YA0480	CH3-	T)	Н	Н
YA0481	СН3-	, (C)	Н	Н
YA0482	СН3-	Ţ,	Н	Н
YA0483	CH3-	CT}-i	Н	Н

No.	R1	R2	R3	R4
YA0484	СН3-	CT's	Н	Н
YA0485	СН3-		Н	Н
YA0486	СН3-	"CTS	Н	Н
YA0487	СН3-	, (T)	Н	Н
YA0488	СН3-	ČLS	Н	Н
YA0489	СН3-		Н	Н
YA0490	CH3-	T H	Н	Н
YA0491	CH3-	T N	Н	Н
YA0492	CH3-	i, N N H	Н	Н
YA0493	CH3-	ÇŢ'n	Н	Н
YA0494	CH3-	CIN N	Н	Н
YA0495	CH3-	Č _N	Н	Н
YA0496	CH3-	Y N	Н	Н
YA0497	CH3-	CIN→1	Н	Н
YA0498	CH3-	Š,	Н	. Н
YA0499	CH3-	S N	Н	Н
YA0500	CH3-	L CIN	Н	Н
YA0501	CH3-		Н	Н
YA0502	CH3-	() s	Н	Н
YA0503	СН3-		Н	Н
YA0504	СН3-	r Or	Н	Н

No.	R1	R2	R3	R4
YA0505	СН3-	¹√∑S	Н	Н
YA0506	CH3-	Ž,	Н	Н
YA0507	СН3-	CJ.	Н	Н
YA0508	СН3-		Н	Н
YA0509	CH3-	"CTON	н	Н
YA0510	СН3-	"CION	Н	Н
YA0511	CH3-	ÇŢòn	Н	Н
YA0512	CH3-	CT,N	Н	Н
YA0513	CH3-	ČT _S N	н	Н
YA0514	CH3-	" CL'N	Н	Н
YA0515	CH3-	, IT'SN	Н	. Н
YA0516	CH3-	<u> </u>	Н	Н
YA0517	CH3-	Ţ.	н	Н
YA0518	CH3-	,CT	Н	Н
YA0519	CH3-		Н	Н
YA0520	CH3-		Н	Н
YA0521	CH3-	CH3-	Н	CH3
YA0522	CH3-	CH3CH2-	Н	CH3
YA0523	CH3-	∕ ∖\	Н	CH3
YA0524	CH3-	74	Н	CH3
YA0525	CH3-	\\\ \\	Н	CH3

No.	R1	R2	R3	R4
YA0526	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СНЗ
YA0527	CH3-	7	Н	СНЗ
YA0528	CH3-	7	Н	СНЗ
YA0529	СН3-	^ \\\	Н	CH3
YA0530	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	CH3
YA0531	CH3-	× r	Н	CH3
YA0532	CH3-	7	Н	СНЗ
YA0533	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СНЗ
YA0534	CH3-		Н	СНЗ
YA0535	CH3-	^ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СНЗ
YA0536	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СНЗ
YA0537	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СНЗ
YA0538	CH3-	٠,٠,٠	Н	СНЗ
YA0539	CH3-		Н	CH3
YA0540	CH3-		н	CH3
YA0541	CH3-		н	СНЗ
YA0542	CH3-	\longrightarrow	. Н	СНЗ
YA0543	СН3-	\Diamond	Н	СНЗ
YA0544	СН3-		Н	СНЗ
YA0545	СН3-		Н	СНЗ
YA0546	CH3-	\bigcirc	Н	СНЗ

YA0547 CH3- → H CH3 YA0548 CH3- → H CH3 YA0549 CH3- → H CH3 YA0550 CH3- → H CH3 YA0551 CH3- → H CH3 YA0552 CH3- → H CH3 YA0553 CH3- → H CH3 YA0554 CH3- → H CH3 YA0555 CH3- → H CH3 YA0556 CH3- → H CH3 YA0557 CH3- CH- → H CH3 YA0558 CH3- CH- → H CH3 YA0569 CH3- → H CH3 → H CH3 YA0561 CH3- → H CH3 → H CH3 YA0562 CH3- → H H CH3 YA0563 CH3- → H CH3 → H CH3 YA0566 CH3- → H CH3 → H CH3	No.	R1	R2	R3	. D4
YA0548 CH3- Image: Automotion of the color of t			<u></u>		CH3
YA0550 CH3- H CH3 YA0551 CH3- H CH3 YA0552 CH3- H CH3 YA0553 CH3- H CH3 YA0554 CH3- CH3- H CH3 YA0555 CH3- CH3- H CH3 YA0556 CH3- CH3- H CH3 YA0558 CH3- CH3- H CH3 YA0559 CH3- CH3- H CH3 YA0560 CH3- H CH3 YA0561 CH3- H CH3 YA0562 CH3- H CH3 YA0563 CH3- H CH3 YA0564 CH3- H CH3 YA0565 CH3- H CH3 YA0566 CH3- H CH3	YA0548	СН3-		Н	CH3
YA0551 CH3- H CH3 YA0552 CH3- H CH3 YA0553 CH3- H CH3 YA0554 CH3- H CH3 YA0555 CH3- CH H CH3 YA0556 CH3- CH- H CH3 YA0557 CH3- CH- H CH3 YA0558 CH3- CH- H CH3 YA0559 CH3- CH- H CH3 YA0560 CH3- H CH3 YA0561 CH3- H CH3 YA0562 CH3- H CH3 YA0563 CH3- H CH3 YA0564 CH3- H CH3 YA0565 CH3- H CH3 YA0566 CH3- H CH3	YA0549	снз-	<u></u>	Н	СНЗ
YA0552 CH3- F H CH3 YA0553 CH3- F H CH3 YA0554 CH3- CI H CH3 YA0555 CH3- CH3- H CH3 YA0556 CH3- CH3- H CH3 YA0557 CH3- CH3- H CH3 YA0558 CH3- CH3- H CH3 YA0569 CH3- SF H CH3 YA0561 CH3- SF H CH3 YA0562 CH3- SF H CH3 YA0563 CH3- SF H CH3 YA0565 CH3- H CH3 YA0566 CH3- H CH3 YA0566 CH3- H CH3	YA 05 50	CH3-	F.	Н	CH3
YA0553 CH3- F H CH3 YA0554 CH3- F H CH3 YA0555 CH3- CI H CH3 YA0556 CH3- CH3- H CH3 YA0557 CH3- CH3- H CH3 YA0558 CH3- CH3- H CH3 YA0559 CH3- CH3- H CH3 YA0560 CH3- H CH3 YA0561 CH3- H CH3 YA0562 CH3- Br H CH3 YA0563 CH3- Br H CH3 YA0564 CH3- H CH3 YA0565 CH3- H CH3 YA0566 CH3- H CH3	YA0551	СН3-		Н	CH3
YA0554 CH3- F- → III	YA0552	СН3-	F-{_}-{	Н	СНЗ
YA0555 CH3- CI H CH3 YA0556 CH3- CI H CH3 YA0557 CH3- CH- H CH3 YA0558 CH3- CH- H CH3 YA0559 CH3- CH- H CH3 YA0560 CH3- H CH3 YA0561 CH3- H CH3 YA0562 CH3- Br- H CH3 YA0563 CH3- Br- H CH3 YA0564 CH3- Br- H CH3 YA0566 CH3- H CH3	YA0553	СН3-	F-C>	Н	СНЗ
YA0555 CH3- CH3- H CH3 YA0556 CH3- CH3- H CH3 YA0557 CH3- CH3- H CH3 YA0558 CH3- CH3- H CH3 YA0559 CH3- CH3- H CH3 YA0560 CH3- H CH3 YA0561 CH3- Br → H CH3 YA0562 CH3- Br → H CH3 YA0563 CH3- Br → H CH3 YA0564 CH3- H CH3 YA0565 CH3- H CH3 YA0566 CH3- H CH3	YA0554	СН3-		Н	СНЗ
YA0556 CH3-	YA0555	CH3-	CI	Н	СНЗ
YA0558 CH3- CH- H CH3 YA0559 CH3- CH- H CH3 YA0560 CH3- Br H CH3 YA0561 CH3- Br H CH3 YA0562 CH3- Br H CH3 YA0563 CH3- Br H CH3 YA0564 CH3- Br H CH3 YA0565 CH3- H CH3 YA0566 CH3- H CH3	YA0556	CH3-	CI;	, Н	СНЗ
YA0559 CH3- CH3- H CH3 YA0560 CH3- Br H CH3 YA0561 CH3- Br H CH3 YA0562 CH3- Br H CH3 YA0563 CH3- Br H CH3 YA0564 CH3- Br H CH3 YA0565 CH3- H CH3 YA0566 CH3- H CH3	YA0557	СН3-	CH-{}	Н	СНЗ
YA0560 CH3- Br	YA0558	СН3-	CH	Н	СНЗ
YA0560 CH3- H CH3 YA0561 CH3- Br H CH3 YA0562 CH3- Br H CH3 YA0563 CH3- Br H CH3 YA0564 CH3- Br H CH3 YA0565 CH3- H CH3 YA0566 CH3- H CH3	YA0559	CH3-		Н	CH3
YA0561 CH3- H CH3 YA0562 CH3- Br → H CH3 YA0563 CH3- Br → H CH3 YA0564 CH3- Br → H CH3 YA0565 CH3- H CH3 YA0566 CH3- H CH3	YA0560	CH3-		Н	СНЗ
YA0563 CH3- Br H CH3 YA0564 CH3- Br H CH3 YA0565 CH3- H CH3 YA0566 CH3- H CH3	YA0561	CH3-		Н	i
YA0564 CH3- Br- IIII- H CH3 YA0565 CH3- H CH3 YA0566 CH3- H CH3	YA0562	CH3-	Br—{}	Н	СНЗ
YA0565 CH3-	YA0563	CH3-	Br—⟨S→	Н	СНЗ
YA0566 CH3- H CH3	YA0564	СН3-	Br—(Н	СНЗ
VASSO-	YA0565	СН3-		н	СНЗ
YA0567 CH3- H CH3	YA0566	CH3-	 	Н	СНЗ
	YA0567	СН3-	├	Н	СНЗ

No.	R1	R2	R3	R4
YA0568	СН3-	CH₃	Н	СНЗ
YA0569	CH3-	H ₃ C	Н	CH3
YA0570	СН3-	H ₃ C-{}	Н	CH3
YA0571	CH3-	C ₂ H ₅ —{}	Н	CH3
YA0572	CH3-	n-C ₃ H ₇ {}	Н	СНЗ
YA0573	CH3-	n-C ₄ H ₉ —{}	Н	СНЗ
YA0574	CH3-	OH OH	Н	СНЗ
YA0575	CH3-	HO HO	Н	СНЗ
YA0576	CH3-	HO-{\bigcirc}-{\big }	Н	СНЗ
YA0577	CH3-	OCH₃	Н	СНЗ
YA0578	CH3-	H ₃ CO	Н	СНЗ
YA0579	CH3-	H ₃ CO-{}	Н	СНЗ
YA0580	CH3-	H ₃ CO-{\bigs\}	Н	СНЗ
YA0581	CH3-	H ₃ CO-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	CH3
YA0582	CH3-	OC ₂ H ₅	Н	CH3
YA0583	CH3-	C ₂ H ₅ O	Н	CH3
YA0584	CH3-	C ₂ H ₅ O-{}{	. Н	СНЗ
YA0585	СН3-	n-C ₃ H ₇ O-{{{}^{\!	Н	СНЗ
YA0586	СН3-	n-C ₄ H ₉ O-{}_{{}}	Н	СНЗ
YA0587	CH3-	NO ₂	Н	СНЗ
YA0588	CH3-	O ₂ N 	Н	СНЗ

No.	R1	R2	R3	R4
YA0589	СН3-	O_2N-	Н	CH3
YA0590	СН3-	CN	Н	СНЗ
YA0591	снз-	NC	Н	СНЗ
YA0592	CH3-	NC-{}-{	Н	СНЗ
YA0593	CH3-	CF ₃	Н	СНЗ
YA0594	CH3-	F ₃ C —}	Н	CH3
YA0595	CH3-	F ₃ C-{}{	Н	СН3
YA0596	CH3-	COOH	Н	СНЗ
YA0597	CH3-	HOOC	Н	СНЗ
YA0598	CH3-	HOOC-{}	Н	СНЗ
YA0599	CH3-	CO ₂ Me	Н	CH3
YA0600	CH3-	MeO ₂ C	н	CH3
YA0601	CH3-	MeO ₂ C-{{}	Н	CH3
YA0602	CH3-	CO ₂ Et	Н	CH3
YA0603	CH3-	EtO ₂ C >—;	Н	CH3
YA0604	СН3-	EtO ₂ C-\bigsim_\f	Н	CH3
YA0605	CH3-	SMe	. Н	CH3
YA0606	СН3-	MeS ;	Н	СНЗ
YA0607	СН3-	MeS-{_}{	Н	СНЗ
YA0608	CH3-	SO ₂ Me	Н	СНЗ
YA0609	CH3-	MeO ₂ S {	Н	СНЗ

No.	R1	R2	R3	R4
YA0610	CH3-	MeO ₂ S-{	H	СНЗ
YA0611	CH3-	NH ₂	н	СНЗ
YA0612	снз-	H ₂ N	Н	СНЗ
YA0613	СН3-	H_2N-	Н	СНЗ
YA0614	СН3-	NMe ₂	Н	CH3
YA0615	СН3-	Me ₂ N	Н	СНЗ
YA0616	СН3-	Me ₂ N—	Ή	СНЗ
YA0617	СН3-		Н	CH3
YA0618	СН3-		Н	СНЗ
YA0619	СН3-		Н	СНЗ
YA0620	CH3-	___________________	Н	СН3
YA0621	CH3-	N-C	Н	СНЗ
YA0622	CH3-	N-{_}-;	Н	CH3
YA0623	CH3-	○ N- ()	Н	CH3
YA0624	СН3-	o_N-⟨_}	н	CH3
YA0625	СН3-	O_N-{_}-;	Н	CH3
YA0626	СН3-	H ₃ CN N	Н	CH3
YA0627	CH3-	H ₃ CN N-	Н	СНЗ
YA0628	CH3-	H₃CN_N-{_}-;	Н	CH3
YA0629	CH3-	H ₃ C CH ₃	Н	CH3
YA0630	CH3-	CH ₃	Н	CH3

No.	R1	R2	R3	R4
YA0631	CH3-	CH ₃ H ₃ C	Н	CH3
YA0632	СН3-	CH₃ CH₃	Н	СНЗ
YA0633	СН3-	H ₃ C H ₃ C-{}	Н	СНЗ
YA0634	СН3-	H ₃ C H ₃ C	Н	СНЗ
YA0635	СН3-	F F	Н	СНЗ
YA0636	СН3-	F—Ş	Н	СНЗ
YA0637	CH3-	F F	Н	СНЗ
YA0638	CH3-	F F	Н	СНЗ
YA0639	CH3-	F———	Н	СНЗ
YA0640	СН3-	F F	Н	СНЗ
YA0641	СН3-	CI_CI	Н	СНЗ
YA0642	CH3-	CI—(CI	Н	СНЗ
YA0643	СН3-	CI	Н	СНЗ
YA0644	СН3-	CI CI	Н	СНЗ

No.	R1	R2	R3	R4
YA0645	CH3-	CI CI	H	СНЗ
YA0646	СН3-	CI	Н	CH3
YA0647	СН3-	H₃CO_OCH₃	Н	СНЗ
YA0648	СН3-	OCH ₃ H₃CO-⟨□}	Н	СНЗ
YA0649	CH3-	OCH ₃ H ₃ CO	Н	СНЗ
YA0650	СН3-	OCH ₃ OCH ₃	Н	СНЗ
YA0651	СН3-	H ₃ CO H ₃ CO	Н	СНЗ

No.	R1	R2	R3	R4
YA0652	СН3~	H₃CO H₃CO	Н	CH3
YA0653	СН3-	F_OCH ₃	Н	СН3
YA0654	CH3-	OCH ₃ F—∰	Н	СНЗ
YA0655	СН3-	OCH ₃	н	СНЗ
YA0656	СН3-	OCH ₃ F—∑m{	Н	СНЗ
YA0657	СН3	OCH₃ → F	H	CH3
YA0658	СН3-	OCH₃ F	Н	CH3
YA0659	CH3-	H₃CO F—⟨□}—;	н	СНЗ
YA0660	CH3-	H ₃ CO F	Н	СНЗ
YA0661	СН3-	H₃CO_F	Н	СНЗ
YA0662	СН3-	H₃CO-⟨¯¯¯	Н	СНЗ
YA0663	СН3-	F H₃CO	Н	СНЗ
YA0664	СН3-	H₃CO-⟨	Н	СНЗ
YA0665	СН3-	CI_OCH₃	Н	СНЗ

No.	R1	R2	R3	R4
YA0666	CH3-	CI— OCH₃ CI— OCH₃	Н	СНЗ
YA0667	СН3-	OCH ₃ CI	Н	СНЗ
YA0668	СН3-	OCH ₃ CI	Н	СНЗ
YA0669	CH3-	H₃CQ CI—{}	H	СНЗ
YA0670	СН3-	H₃CO CI	Н	СНЗ
YA0671	СН3-	H₃CO_CI	Н	СНЗ
YA0672	СН3-	CI H₃CO-⟨¯́}	Н	СНЗ

No.	R1	R2	R3	R4
YA0673	CH3-	H ₃ CO	Н	CH3
YA0674	СН3-	CI H ₃ CO-	Н	СНЗ
YA0675	СН3-	F_CH ₃	Н	СНЗ
YA0676	CH3-	CH ₃ F—⟨∑→}	Н	СНЗ
YA0677	СН3-	CH ₃ F	Н	СНЗ
YA0678	CH3-	CH ₃	Н	СНЗ
YA0679	СН3-	H ₃ C F——}	Н	СНЗ
YA0680	CH3-	H ₃ C F	Н	CH3
YA0681	CH3-	H₃C_F	Н	СНЗ
YA0682	СН3-	H₃C-⟨ F	Н	СНЗ
YA0683	СН3-	F H₃C	Н	СНЗ
YA0684	СН3-	F H₃C-	Н	СНЗ
YA0685	СН3-	Br_OCH ₃	Н	СНЗ
YA0686	СН3-	OCH ₃	Н	снз

No.	R1	R2	R3	R4
YA0687	CH3-	OCH₃ Br	Н	СНЗ
YA0688	СН3-	OCH ₃	Н	снз
YA0689	CH3-	H₃CO Br—⋛	H.	СНЗ
YA0690	CH3~	H₃CO Br	H	СНЗ
YA0691	СН3-	H₃CO_Br	Н	СНЗ
YA0692	СН3-	Br H₃CO-	Н	СНЗ
YA0693	СН3-	H ₃ CO Br	Н	СНЗ

No.	R1	R2	R3	R4
YA0694	СН3-	Br H₃CO-⟨	Н	СНЗ
YA0695	СН3-	H ₃ CQ \range N-\lange \range	Н	СНЗ
YA0696	СН3-	OCH ₃	Н	СНЗ
YA0697	CH3-	CN-CD-OCH3	Н	СНЗ
YA0698	CH3-	H₃CO → N	Н	СН3
YA0699	CH3-	H₃CO N—	Н	СНЗ
YA0700	СН3-	OCH₃	Н	СНЗ
YA0701	CH3-	F——F	Н	СНЗ
YA0702	CH3-	OCH ₃ F—⟨_}-} F	Н	СНЗ
YA0703	СН3-	H₃CO-	Н	СНЗ
YA0704	CH3-	OCH ₃ F—∕_}} OCH ₃	Н	СНЗ
YA0705	CH3-	OCH ₃ H ₃ CO-{_}} OCH ₃	Н	СНЗ
YA0706	CH3-	CI—CI	Н	СНЗ
YA0707	CH3-	CI——; CI	Н	СНЗ

No.	R1	R2	R3	R4
YA0708	СН3-	H ₃ CO-{_}{};	Н	СНЗ
YA0709	снз-	CI-⟨□⟩-} OCH ₃	Н	СНЗ
YA0710	CH3-	OCH ₃ H ₃ CO-⟨}-{ OCH ₃	Н	СНЗ
YA0711	CH3-	OCH ₃	Н	СНЗ
YA0712	СН3-	H ₃ CO	Н	СНЗ
YA0713	СН3-	H ₃ CO-{_}_{}	Н	СНЗ
YA0714	СН3-	OCH ₃ }\	Н	СНЗ

No.	R1	R2	R3	R4
YA0715	CH3-	H ₃ CO \range \frac{1}{2}	Н	СНЗ
YA0716	СН3-	H ₃ CO-{\}	Н	СНЗ
YA0717	СН3-	OCH ₃	Н	СНЗ
YA0718	CH3-	H ₃ CO	Н	СНЗ
YA0719	CH3-	H ₃ CO-	Н	СНЗ
YA0720	CH3-	F-()-j	Н	СНЗ
YA0721	CH3-	F	H	СНЗ
YA0722	СН3-	F-{\}-{\}-{\}	Н	СНЗ
YA0723	CH3-	Ç ^F C ^Ì	Н	. СН3
YA0724	CH3-	F. ~	Н	СНЗ
YA0725	СН3-	F-(Н	СНЗ
YA0726	СН3-	□ F C	Н	СНЗ
YA0727	СН3-	F.	Н	СНЗ
YA0728	CH3-	F-(Н	СНЗ

No.	R1	R2	R3	R4
YA0729	CH3-		Н	СНЗ
YA0730	СН3-	CC' ¹	Н	СНЗ
YA0731	СН3-	CH3-	Н	Q
YA0732	CH3-	CH3CH2-	H	
YA0733	СН3-	∕ √\`\	Н	
YA0734	СН3-	74	Н	
YA0735	СН3-	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	

No.	R1	R2	R3	R4
YA0736	CH3-	٠,	н	
YA0737	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	H	
YA0738	CH3-	7	Н	
YA0739	СН3-	^ \\\	Н	
YA0740	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	
YA0741	СН3-	Xx	Н	
YA0742	СН3-	7	Н	
YA0743	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	
YA0744	СН3-		Н	
YA0745	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	- Н	
YA0746	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	
YA0747	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	
YA0748	CH3-	٠, ١	Н	
YA0749	CH3-		Н	
YA0750	CH3-		Н	
YA0751	CH3-		Н	
YA0752	CH3-	\longrightarrow	Н	
YA0753	CH3-	\Diamond	Н	
YA0754	CH3-	→	Н	
YA0755	CH3-		Н	
YA0756	CH3-		Н	

YA0757 CH3- H	No.	R1	R2	R3	R4
YA0759 CH3- CH3- H <	YA0757	CH3-			
YA0760 CH3- Image: CH3- I	YA0758	СН3-		Н	
YA0761 CH3- H YA0762 CH3- H YA0763 CH3- H YA0764 CH3- H YA0765 CH3- H YA0766 CH3- H YA0767 CH3- CH- YA0768 CH3- CH- YA0769 CH3- CH- YA0770 CH3- H YA0771 CH3- H YA0772 CH3- H YA0773 CH3- Br- YA0774 CH3- H YA0775 CH3- H YA0776 CH3- H	YA0759	CH3-	⊘ m∮	Н	
YA0762 CH3- F H Image: CH3- H Im	YA0760	СН3-	F-;	Н	Q
YA0763 CH3- F- IIII H IIII H IIII H IIII IIII H IIII IIII H IIII IIII IIII H IIII IIIII IIII IIII IIII </td <td>YA0761</td> <td>СН3-</td> <td>F;</td> <td>Н</td> <td>Q</td>	YA0761	СН3-	F;	Н	Q
YA0764 CH3- F III-IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	YA0762	СН3-	F-{_}_{}	Н	Qu
YA0765 CH3- CI H Image: CH3-	YA0763	СН3-	F{}	Н	
YA0765 CH3- H Image: CH3- H	YA0764	СН3-	F———	Н	Q
YA0766 CH3-	YA0765	CH3-	CI	Н	
YA0768 CH3- CH- H H H YA0769 CH3- CH3- CH3- H H H YA0770 CH3- H H YA0771 CH3- H H YA0771 CH3- H H YA0772 CH3- H H YA0773 CH3- H YA0774 CH3- H YA0775 CH3- H YA0776 CH3- YA0776 YA0776	· YA0766	CH3-	CI	Н	
YA0769 CH3- CH- H Image: CH3- Image: CH3- H Image: CH3- Image: CH3- H Image: CH3-	YA0767	CH3-	C⊢ (_)—{	Н	
YA0770 CH3- Br H <td< td=""><td>YA0768</td><td>CH3-</td><td>c⊢</td><td>Н</td><td></td></td<>	YA0768	CH3-	c ⊢	Н	
YA0770 CH3- H YA0771 CH3- Br H YA0772 CH3- Br H YA0773 CH3- Br H YA0774 CH3- Br H YA0775 CH3- H H YA0776 CH3- H H	YA0769	СН3-		Н	Q
YA0771 CH3- H Image: CH3- Image: CH3- H Image: CH3- Image:	YA0770	CH3-	Br	Н	Q
YA0773 CH3- Br- H ↓ YA0774 CH3- Br- H ↓ YA0775 CH3- H ↓ YA0776 CH3- ↓ H ↓	YA0771	CH3-	Br	Н	Q
YA0774 CH3− Br— H YA0775 CH3− H YA0776 CH3− H H YA0776 CH3− H YA0776 CH3− H	YA0772	СН3-	Br—⟨{	Н	
YA0775 CH3- H	YA0773	CH3-	Br— ⟨_ }		
YA0776 CH3- H	YA0774	СН3-	Br—⟨⟩ııı∮	н	
	YA0775	CH3-		н	<u> </u>
YA0777 CH3- H	YA0776	CH3-		н	
	YA0777	CH3-	I—(н [

No.	R1	R2	R3	R4
YA0778	CH3-	CH ₃	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
YA0779	CH3-	H ₃ C	Н	
YA0780	снз-	H ₃ C-{	Н	Qu
YA0781	CH3-	C ₂ H ₅ —{	Н	Q
YA0782	CH3-	n-C ₃ H ₇ {}	H	Qu
YA0783	СН3-	n-C ₄ H ₉ —{}	Н	Q
YA0784	CH3-	OH	н	Q
YA0785	CH3-	HO	Н	Q
YA0786	CH3-	HO-{\bigcirc}-\frac{1}{3}	Н	Q
YA0787	СН3-	OCH ₃	н	Q
YA0788	CH3-	H ₃ CO	Н	
YA0789	CH3-	H ₃ CO-{}	Н	
YA0790	CH3-	H ₃ CO-{}	Н	
YA0791	CH3-	H₃CO-⟨\vid	Н	
YA0792	CH3-	OC ₂ H ₅	Н	Qr
YA0793	CH3-	C ₂ H ₅ O	Н	
YA0794	CH3-	C ₂ H ₅ O-{	. н	Q
YA0795	CH3-	n-C ₃ H ₇ O-{}{	Н	Q
YA0796	CH3-	n-C ₄ H ₉ O-{}-{	н	
YA0797	CH3-	NO ₂	Н	
YA0798	CH3-	O ₂ N	н	

No.	R1	R2	T Do	
YA0799	CH3-	O ₂ N-{}	R3 H	R4
YA0800	CH3-	CN	н	
YA0801	СН3-	NC	Н	Q
YA0802	CH3-	NC-{}-{	Н	
YA0803	CH3-	CF₃	Н	
YA0804	CH3-	F ₃ C	н	
YA0805	CH3-	F ₃ C-{}	Н	Q
YA0806	СН3-	COOH {}	Н	
YA0807	СН3-	HOOC	Н	
YA0808	СН3-	HOOC-{_}-{	Н	
YA0809	CH3-	CO ₂ Me	Н	
YA0810	CH3-	MeO ₂ C	н	
YA0811	CH3-	MeO ₂ C-{{}	Н	
YA0812	CH3-	CO ₂ Et	Н	
YA0813	CH3-	EtO ₂ C	Н	
YA0814	CH3-	EtO ₂ C-{}_{}	Н	
YA0815	CH3-	SMe	. H	
YA0816	CH3-	MeS	Н	
YA0817	CH3-	MeS-{_}{	н	
YA0818	CH3-	SO ₂ Me	н	
YA0819	CH3-	MeO ₂ S	н	<u></u>

YA0820 CH3- MeO₂S- H YA0821 CH3- NH2 H YA0822 CH3- H2N- H YA0823 CH3- H2N- H YA0824 CH3- NIMe₂ H YA0825 CH3- Me₂N- H YA0826 CH3- Me₂N- H YA0827 CH3- N- H YA0828 CH3- N- H YA0829 CH3- N- H YA0830 CH3- N- H YA0831 CH3- N- H YA0832 CH3- N- H YA0833 CH3- N- H YA0834 CH3- N- H YA0835 CH3- N- H YA0836 CH3- H3cN H YA0837 CH3- H3cN H YA0838 CH3- H3cN H	No.	R1	R2	R3	R4
YA0821 CH3- H2N- H YA0823 CH3- H2N- H YA0824 CH3- H H YA0825 CH3- Me2N- H YA0826 CH3- Me2N- H YA0827 CH3- H H YA0828 CH3- N- H YA0829 CH3- N- H YA0831 CH3- N- H YA0832 CH3- N- H YA0833 CH3- N- H YA0834 CH3- N- H YA0835 CH3- N- H YA0836 CH3- H3CN H YA0837 CH3- H3CN H YA0838 CH3- H3CN H YA0838 CH3- H3CN H YA0838 CH3- H3CN H			MeO ₂ S-{}		R4
YA0822 CH3- H2N- H YA0823 CH3- H2N- H YA0824 CH3- NMe2 H YA0825 CH3- Me2N- H YA0826 CH3- Me2N- H YA0827 CH3- N- H YA0828 CH3- N- H YA0839 CH3- N- H YA0831 CH3- N- H YA0832 CH3- N- H YA0833 CH3- N- H YA0834 CH3- N- H YA0835 CH3- N- H YA0836 CH3- H3CN N- H YA0838 CH3- H3CN N- H YA0838 CH3- H3CN N- H	YA0821	CH3-	NH ₂	Н	
YA0824 CH3- NMe2 H YA0825 CH3- Me2N H YA0826 CH3- Me2N H YA0827 CH3- N- H YA0828 CH3- N- H YA0829 CH3- N- H YA0830 CH3- N- H YA0831 CH3- N- H YA0832 CH3- N- H YA0833 CH3- N- H YA0834 CH3- N- H YA0835 CH3- N- H YA0836 CH3- H3CN H YA0837 CH3- H3CN H YA0838 CH3- H3CN H	YA0822	снз-	<i>></i> =\ .	Н	
YA0824 CH3- H	YA0823	CH3-		Н	Q
YA0825 CH3- H YA0826 CH3- Me₂N- H YA0827 CH3- N- H YA0828 CH3- N- H YA0829 CH3- N- H YA0830 CH3- N- H YA0831 CH3- N- H YA0832 CH3- N- H YA0833 CH3- N- H YA0834 CH3- N- H YA0835 CH3- H3CN N- H YA0837 CH3- H3CN N- H YA0838 CH3- H3CN N- H	YA0824	CH3-		Н	Q
YA0827 CH3- N- H YA0828 CH3- N- H YA0829 CH3- N- H YA0830 CH3- N- H YA0831 CH3- N- H YA0832 CH3- N- H YA0833 CH3- N- H YA0834 CH3- N- H YA0835 CH3- N- H YA0836 CH3- H ₃ CN N- YA0837 CH3- H ₃ CN N- H ₃ CN N- H	YA0825	СН3-	Me ₂ N —>→	Н	Q
YA0828 CH3- N- H 1 <td< td=""><td>YA0826</td><td>СН3-</td><td>Me₂N-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</td><td>Н</td><td>Q</td></td<>	YA0826	СН3-	Me ₂ N-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Q
YA0829 CH3- N- H 1 <td< td=""><td>YA0827</td><td>CH3-</td><td></td><td>Н</td><td>Q</td></td<>	YA0827	CH3-		Н	Q
YA0830 CH3- N- H 1 <td< td=""><td>YA0828</td><td>CH3-</td><td>_N</td><td>Н</td><td>Q</td></td<>	YA0828	CH3-	_N	Н	Q
YA0831 CH3- N- H 1 <td< td=""><td>YA0829</td><td>CH3-</td><td></td><td>Н</td><td>Q</td></td<>	YA0829	CH3-		Н	Q
YA0832 CH3- N-	YA0830	CH3-	\(\sum_{\sym_{\sum_{\sum_{\sym_{\sum_{\sum_{\sym_{\sum_{\sym_{\sum_{\sym_{\s\s\s\s\s\s\s\s\s\s\s\s\s\s\s\s\s\s\s	Н	
YA0833 CH3- ON- H YA0834 CH3- ON- H YA0835 CH3- ON- H YA0836 CH3- H3CN N- H YA0837 CH3- H3CN N- H YA0838 CH3- H3CN N- H H3C CH3- H H	YA0831	CH3-	\(\rightarrow\rightar	Н	
YA0834 CH3-	YA0832	CH3-	N-{_}-{	н	Q
YA0835 CH3-	YA0833	CH3-	○ N- ◇	Н	Q
YA0836 CH3− H ₃ CN N−	YA0834	CH3-		Н	Q
YA0837 CH3- H ₃ CN N- H YA0838 CH3- H ₃ CN N- H H H H H H H H H H H H H	YA0835	СН3-	O_N-{_}-}	Н	
YA0838 CH3- H ₃ CN N- H	YA0836	СН3-	H ₃ CN_N-	. н	
H ₃ C_CH ₃	YA0837	CH3-	H ₃ CN_N-⟨	н	
	YA0838	СН3-		н	
	YA0839	СН3-		н	
YA0840 CH3- H ₃ C-CH ₃ H	YA0840	CH3-	. –	н [

No.	l R1	R2	R3	R4
YA0841	СН3-	CH ₃ H ₃ C	Н	
YA0842	CH3-	CH₃ CH₃	Н	
YA0843	СН3-	H ₃ C{}	Н	Q
YA0844	CH3-	H ₃ C; H ₃ C	H	Q
YA0845	СН3-	FF	Н	
YA0846	СН3-	F——F	Н	
YA0847	СН3-	F F	Н	Q
YA0848	CH3-	F	Н	Q
YA0849	CH3-	F———	Н	Q
YA0850	СН3-	F.	Н	Q
YA0851	СН3-	CI	Н	
YA0852	CH3-	CI—CI	Н	
YA0853	CH3-	CI	Н	
YA0854	СН3-	CI	Н	Q
YA0855	СН3-	CI——→	Н	Q

No.	R1	R2	R3	R4
YA0856	СН3-	CI	Н	Q
YA0857	CH3-	H₃CO_OCH₃	Н	
YA0858	CH3-	OCH₃ H₃CO-⟨S	Н	
YA0859	СН3-	OCH₃ → H₃CO	Н	Q
YA0860	CH3-	OCH ₃ OCH ₃	Н	Qu
YA0861	CH3-	H₃CO H₃CO—	Н	

No.	R1	R2	R3	R4
YA0862	CH3-	H ₃ CO	Н	
YA0863	CH3-	F_OCH ₃	Н	
YA0864	СН3-	OCH ₃	Н	J.
YA0865	CH3-	OCH ₃ F—	Н	
YA0866	CH3-	OCH ₃	Н	
YA0867	СН3-	OCH ₃	Н	
YA0868	СН3-	OCH₃ F	Н	
YA0869	CH3-	H ₃ CO F—	Н	
YA0870	CH3-	H₃CO F	Н	
YA0871	СН3-	H ₃ CO_F	Н	
YA0872	СН3-	H₃CO-⟨¯¯ <mark></mark> F	Н	
YA0873	СН3-	H₃CO F	Н	
YA0874	CH3-	H₃CO-⟨ -	Н	Q h
YA0875	СН3-	CI_OCH ₃	Н	
YA0876	СН3-	OCH ₃	Н	Qr

No.	R1	R2	R3	R4
YA0877	СН3-	OCH₃ CI	Н	
YA0878	СН3-	OCH ₃	Н	
YA0879	СН3-	H₃CQ CI—	Н	
YA0880	СН3-	H₃CO CI	Н	
YA0881	СН3-	H₃CO_CI	н	
YA0882	CH3	H₃CO-⟨¯¯)	Н	

No.	R1	LR2	R3	D/
YA0883	СН3-	CI H ₃ CO	H	R4
YA0884	CH3-	CI H ₃ CO-	Н	
YA0885	CH3-	F_CH ₃	Н	Q
YA0886	CH3	CH ₃ F—√}	Н	Q
YA0887	СН3-	CH₃ F	Н.	
YA0888	СН3-	CH ₃	Н	Q
YA0889	CH3-	H ₃ C F—_}_{}	Н	
YA0890	СН3-	H ₃ C	Н	
YA0891	CH3-	H ₃ C F	Н	Qu
YA0892	CH3	H₃C-⟨\$\frac{F}{}	Н	
YA0893	СН3-	F H₃C	Н	
YA0894	СН3-	H ₃ C	Н	
YA0895	СН3-	Br_OCH₃	Н	Q
YA0896	CH3-	OCH ₃ Br—√	Н	
YA0897	СН3-	OCH₃ Br	Н	

No.	R1	R2	R3	R4
YA0898	СН3-	OCH ₃ Br	Н	Q
YA0899	СН3-	H₃CQ Br—	Н	Q
YA0900	СН3-	H ₃ CO Br	Н	
YA0901	CH3-	H₃CO_Br	Н	Q
YA0902	CH3-	H₃CO-⟨Sr	Н	Qu
YA0903	СН3-	Br H₃CO	Н	Q

No.	R1	R2	R3	
YA0904	СН3-	Br. H ₃ CO-	Н	R4
YA0905	CH3-	H ₃ CO }	Н	Q
YA0906	СН3-	CN-CH3	Н	
YA0907	СН3-	CN-C>OCH3	Н	Qu
YA0908	СН3-	H ₃ CO N	Н	
YA0909	СН3-	H₃CQ CN-C>;	Н	Q
YA0910	CH3-	OCH ₃	Н	Q
YA0911	СН3-	F F F	Н	
YA0912	CH3-	OCH ₃ F—{} F	Н	
YA0913	CH3-	F H₃CO-⟨∑→; F	Н	
YA0914	CH3-	OCH₃ F—⟨ OCH₃	Н	Qx
YA0915	СН3-	OCH ₃ H ₃ CO-{_}}-} OCH ₃	Н	Q.r.
YA0916	СН3-	CI CI	Н	Q, r,
YA0917	СН3-	OCH₃ CI—CI	Н	
YA0918	CH3-	CI H₃CO-⟨_}} CI	Н	

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No.	R1	R2	R3	R4
YA0919	СН3-	OCH ₃ OCH ₃	Н	
YA0920	СН3-	OCH ₃ H ₃ CO-{\bigcip}_{\bigcip}_{\bigcip} OCH ₃	Н	Q
YA0921	СН3-	OCH ₃	н	
YA0922	CH3-	H ₃ CO	Н	
YA0923	СН3-	H ₃ CO-{}	Н	Q
YA0924	СН3-	OCH₃∖\	Н	Qi

No.	R1	R2	R3	R4
		H₃CQ /²		H4
YA0925	CH3-		Н	
YA0926	СН3-	H ₃ CO-{\(\sigma\)	Н	
YA0927	СН3-	OCH ₃	Н	
YA0928	СН3~	H ₃ CO	Н	Q
YA0929	СН3-	H ₃ CO-	Н	Q
YA0930	СН3-	□□ -{□-}	Н	Q
YA0931	CH3-	F	Н	
YA0932	СН3-	F-(Н	
YA0933	CH3-	□	Н	
YA0934	CH3-	F	Н	
YA0935	CH3-	F-(Н	
YA0936	CH3-		Н	Q
YA0937	CH3-	F,	Н	Q r
YA0938	СН3-	F-C-	Н	Q r
YA0939	CH3-		Н	

No.	R1	R2	R3	R4
YA0940	СН3-	CC	Н	Q
YA0941	CH3-	CH3	Н	l,
YA0942	СН3-	CH3CH2-	Н	l,
YA0943	СН3-	/ \\\	Н	Î,
YA0944	CH3~	\	н	Î,
YA0945	CH3-	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	L _g

No.	R1	R2	R3	R4
YA0946	СН3-	人、	Н	
YA0947	СН3-	7	Н	Î,
YA0948	снз-	7	Н	l _y ,
YA0949	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Î,
YA0950	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Î,
YA0951	CH3-	Xx	Н	<u></u>
YA0952	СН3-	7	Н	
YA0953	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	O C
YA0954	СН3-		н	
YA0955	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	
YA0956	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	
YA0957	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	<u></u>
YA0958	CH3-		Н	<u></u>
YA0959	CH3-		Н	Ŷ,
YA0960	CH3-		Н	, j
YA0961	CH3-		Н	
YA0962	CH3-	ightharpoons	Н	
YA0963	CH3-	\Diamond	Н	À,
YA0964	СН3		н	
YA0965	СН3-		Н	L _y ,
YA0966	CH3-		Н	

No.	R1	R2	R3	R4
YA0967	CH3-		Н	0 ,,,
YA0968	СН3-		Н	<u></u>
YA0969	СН3-		Н)
YA0970	СН3-	F	Н	
YA0971	СН3-		Н	Ŷ,
YA0972	СН3-	F-(-){	Н	Ŷ,
YA0973	СН3-	F—	Н	
YA0974	СН3-	F—————————————————————————————————————	н	
YA0975	CH3-	CI	Н	
YA0976	СН3-	CI	Н	Ŷ,
YA0977	СН3-	C⊢	Н	<u></u>
YA0978	СН3-	c⊢ (Н	
YA0979	СН3-	C⊢ (_>m∤	Н	<u></u>
YA0980	СН3-	Br	Н	
YA0981	СН3-	Br	Н	, , , , , , , , , , , , , , , , , , ,
YA0982	СН3-	Br—⟨{}	Н	Ŷ,
YA0983	СН3-	Br—{}	Н	Ŷ,
YA0984	CH3-	Br—{	Н	O
YA0985	CH3-	 	Н) Ly
YA0986	CH3-		Н	<u> </u>
YA0987	СН3-	-	Н) J

No.	R1	R2	R3	R4
YA0988	CH3-	CH ₃	Н	
YA0989	CH3-	H ₃ C	Н) Ly
YA0990	СН3-	H ₃ C-{{}}	Н	L _g
YA0991	CH3-	C ₂ H ₅ —{	Н	<u></u>
YA0992	CH3-	n-C ₃ H ₇ {_}	Н	
YA0993	CH3-	n-C ₄ H ₉ {}-{	Н	<u></u>
YA0994	CH3-	OH \	Н	Ŷ,
YA0995	CH3-	HO ———	Н	<u></u>
YA0996	CH3-	HO-{_}	Н	Ŷ,
YA0997	CH3-	OCH ₃	Н	Ŷ,
YA0998	CH3-	H ₃ CO	Н	l _y ,
YA0999	CH3-	H₃CO-{_}	Н	Ŷ,
YA1000	CH3-	H ₃ CO-{_}	н	
YA1001	CH3-	H ₃ CO-	Н) J
YA1002	CH3-	OC ₂ H ₅	Н	, o
YA1003	CH3-		Н	Ŷ,
YA1004	CH3-	C ₂ H ₅ O-{}	н	O P
YA1005	СН3-	n-C ₃ H ₇ O-	Н	Ů,
YA1006	СН3-	n-C ₄ H ₉ O-{}	Н	
YA1007	СН3-	NO ₂	Н	٩
YA1008	CH3-	O ₂ N	Н	l _y ,

No.	. R1	R2	R3	R4
YA1009	СН3-	O ₂ N-{{{1}}	Н	Ŷ,
YA1010	СН3-	CN	Н	Ĵ,
YA1011	CH3-	NC ——;	Н	Î,
YA1012	CH3-	NC-{}	Н	Ŷ,
YA1013	CH3-	CF ₃	Н	O N
YA1014	СН3-	F ₃ C —}	Н	Q _y
YA1015	СН3-	F ₃ C-{	Н	Ŷ,
YA1016	CH3-	COOH	Н	O
YA1017	CH3-	HOOC	Н	O S
YA1018	CH3-	HOOC-{\bigs_}{	Н	Ŷ,
YA1019	CH3-	CO₂Me	Н	O
YA1020	CH3-	MeO ₂ C 	Н	Ŷ,
YA1021	CH3-	MeO ₂ C-{}	Н	Ŷ,
YA1022	CH3-	CO ₂ Et	Н	
YA1023	CH3-	EtO ₂ C	Н	
YA1024	CH3-	EtO ₂ C-{}	Н	
YA1025	CH3-	SMe	Н	
YA1026	CH3-	MeS	Н	Ŷ,
YA1027	СН3-	MeS-{_}	Н	Ŷ,
YA1028	CH3-	SO ₂ Me	Н	L _g ,
YA1029	CH3-	MeO ₂ S	Н	<u></u>

No.	. R1	R2	R3	R4
YA1030	CH3-	MeO ₂ S-{	Н	L _y ,
YA1031	CH3-	NH ₂	Н	l _y
YA1032	СН3-	H ₂ N	Н	<u></u>
YA1033	СН3-	H_2N-	Н	Ŷ,
YA1034	СН3-	NMe ₂	Н	l _y ,
YA1035	СН3-	Me₂N →	Н	Ů,
YA1036	СН3-	Me ₂ N-	Н	O S
YA1037	CH3-	CN-	Н	Ŷ,
YA1038	CH3-		Н	O J
YA1039	CH3-		н	Ů,
YA1040	CH3-	\(\sigma_{\sqrt{\sq}}\sqrt{\sq}}}}}}}}\sqrt{\sqrt{\sq}}\sqrt{\sqrt{\sq}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}	Н	Ŷ,
YA1041	CH3-	\(\neg \rightarrow \rightarro	Н	Ŷ,
YA1042	CH3-		Н	Ŷ,
YA1043	CH3-	O_N-	Н	<u> </u>
YA1044	CH3-		Н	, Q
YA1045	CH3-	O_N-{_}-{	Н	Ů,
YA1046	CH3-	H ₃ CN N-	Н	Î,
YA1047	СН3-	H ₃ CN_N-{_}	Н	, ,
YA1048	СН3-	H ₃ CN_N-{_}{	н	Î,
YA1049	СН3-	H₃C_CH₃ →	Н	Ŷ,
YA1050	CH3-	CH ₃	Н	<u></u>

No.	R1	R2	R3	R4
YA1051	СН3-	CH₃ H₃C	Н	Å,
YA1052	снз-	CH ₃ CH ₃	Н	L _f .
YA1053	СН3-	H ₃ C	Н	2,
YA1054	. СН3-	H ₃ C H ₃ C	Н	Î,
YA1055	СН3-	F_F	Н	Î,
YA1056	СН3-	F—∰	Н	l _y ,
YA1057	СН3-	Ş F	Н	Ŷ,
YA1058	CH3-	F F	Н	١,
YA1059	СН3-	F	Н	Ŷ,
YA1060	СН3-	F, F	Н	L _y
YA1061	CH3-	CICI	н .	Î,
YA1062	CH3-	CI─────	Н	<u>L</u> g
YA1063	. CH3-	CI CI	Н	Î,
YA1064	СН3-	CI CI	Н	Î,

No.	R1	R2	R3	R4
YA1065	СН3-	CI—	Н	2,
YA1066	СН3-	CI	Н	Ŷ,
YA1067	СН3-	H₃CO_OCH₃	Н	Ĵ,
YA1068	СН3	OCH ₃ H ₃ CO−⟨ →	Н	L _y ,
YA1069	СН3-	OCH ₃ H ₃ CO	Н	Î,
YA1070	СН3-	OCH ₃ OCH ₃	Н	Ŷ,
YA1071	СН3-	H₃CO H₃CO-⟨}	Н	Ŷ,

No.	R1	R2	R3	R4
YA1072	СН3-	H ₃ CO	Н	L,
YA1073	СН3-	F_OCH ₃	Н	Î,
YA1074	СН3-	OCH₃ F—	Н	Î,
YA1075	СН3~	OCH ₃ F—	Н	Ŷ,
YA1076	СН3-	OCH ₃ F—⟨	Н	Ŷ,
YA1077	CH3-	OCH ₃	н	L _y ,
YA1078	CH3-	OCH₃ → F	Н	Ŷ,
YA1079	CH3-	H ₃ CO F—√	Н	Ŷ,
YA1080	CH3-	H ₃ CO	Н	<u>L</u> g
YA1081	CH3-	H₃CO_F	Н	Ŷ,
YA1082	CH3-	H₃CO-⟨¯¯́}	Н	Ŷ,
YA1083	СН3-	F H₃CO	Н	Ŷ,
YA1084	СН3-	F H₃CO-⟨}	Н	Ŷ,
YA1085	СН3-	CI_OCH ₃	Н	Ŷ,

No.	R1	R2	R3	R4
YA1086	CH3-	OCH₃ CI—	Н	L,
YA1087	СН3-	OCH₃ CI	Н	L _y
YA1088	СН3-	OCH ₃	Н	Ŷ,
YA1089	СН3-	H₃CO CI—	Н	Ŷ,
YA1090	СН3-	H₃CO CI	Н	Ŷ,
YA1091	СН3-	H₃CO_CI	Н	Ŷ,
YA1092	CH3-	CI H₃CO-⟨¯_}	Н	Ŷ,

No.	R1	R2	R3	R4
YA1093	СН3-	CI → H₃CO	Н	<u></u>
YA1094	CH3-	CI H₃CO-{}	Н	<u>L</u> ,
YA1095	CH3-	F_CH₃	Н	Î,
YA1096	CH3-	CH ₃	Н	Ĵ,
YA1097	СН3-	CH ₃	Н	
YA1098	CH3-	CH₃ F	Н	<u>,</u>
YA1099	CH3-	H ₃ C F—√}	Н	Ĺ,
YA1100	CH3-	H ₃ C F	Н	<u>L</u> ,
YA1101	CH3-	H ₃ C_F	Н	Ŷ,
YA1102	CH3-	H ₃ C-⟨F	Н	<u>L</u> ,
YA1103	CH3-	F H₃C	Н	Î,
YA1104	CH3-	H ₃ C-	Н	<u>L</u> ,
YA1105	CH3-	Br_OCH ₃	Н	Ĵ,
YA1106	CH3-	OCH₃ Br—∰	Н	<u>L</u> ,

No.	R1	R2	R3	R4
YA1107	CH3-	OCH₃ Br	Н	2,
YA1108	СН3-	OCH₃ ⇒ Br	Н	2,
YA1109	CH3-	H₃CQ Br—√}	Н	Ŷ,
YA1110	CH3-	H₃CO Br	Н	L,
YA1111	СН3~	H₃CO_Br	Н	Ŷ,
YA1112	СН3-	H₃CO-√SH	Н	Î,
YA1113	СН3-	H ₃ CO	Н	L _g

No.	R1	R2	R3	R4
YA1114	СН3-	Br. H ₃ CO-	Н	1,4
YA1115	CH3-	H ₃ CQ >	Н	L _g ,
YA1116	CH3-	OCH ₃	Н	, J _f
YA1117	СН3-	CN-C→OCH3	Н	Å,
YA1118	CH3-	H ₃ CO > N	Н	Ŷ,
YA1119	СН3-	H₃CO	Н	L,
YA1120	СН3-	OCH ₃	Н	<u>L</u> _j ,
YA1121	CH3-	F F F	Н	Ŷ,
YA1122	СН3-	OCH₃ F—↓} F	Н	L,
YA1123	СН3-	H₃CO-(∑F F	Н	Î,
YA1124	СН3-	OCH ₃ F—⟨}} OCH ₃	Н	<u>L</u> ,
YA1125	СН3-	OCH ₃ H ₃ CO-{_}} OCH ₃	Н	
YA1126	СН3-	CI—CI	Н	Ŷ,
YA1127	СН3-	OCH ₃ CI—{ CI	Н	Ŷ,

No.	R1	R2	R3	R4
YA1128	СН3-	CI H₃CO-⟨}; CI	Н	l _y ,
YA1129	СН3-	OCH₃ CI—() OCH₃	Н	Ŷ,
YA1130	СН3-	OCH ₃ H ₃ CO-{_}-} OCH ₃	Н	l,
YA1131	CH3-	OCH ₃	Н	<u></u> ,
YA1132	CH3-	H ₃ CO	Н	Ļ,
YA1133	СН3-	H ₃ CO-<	Н	Ŷ,
YA1134	СН3-	OCH ₃ \t	Н	Ĵ _y

No.	R1	R2	Do	D4
YA1135	CH3-	H ₃ CO	R3 H	R4
YA1136	СН3-	H ₃ CO-{	Н	Å,
YA1137	СН3-	OCH ₃	Н	Î,
YA1138	СН3-	H ₃ CO	Н	Ŷ,
YA1139	CH3-	H ₃ CO-	Н	Ŷ,
YA1140	СН3-	F	Н	Ŷ,
YA1141	CH3-	F,	Н	<u></u> ,
YA1142	CH3-	F-{\}-{\}-\}	Н	L _y
YA1143	CH3-		Н	L _y
YA1144	CH3-	F	Н	. 🚉
YA1145	CH3-	F-(Н	Ŷ,
YA1146	CH3-	SF_S	Н	Q _f
YA1147	CH3-	Ę.	Н	
YA1148	CH3-	F-()	Н	Ů,

No.	R1	R2	R3	R4
YA1149	CH3-		Н	<u>گ</u>
YA1150	СН3-	CC	Н	Ŷ,
YA1151	СН3-		Н	L,
YA1152	СН3-	() n	Н	l _y
YA1153	СН3-	Çò	Н	L _y
YA1154	СН3-	CH3-	CH3-	Н
YA1155	СН3-	CH3CH2-	CH3-	н

No.	R1	R2	I Do	1 74
YA1156		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	R3	R4
TA1100	CH3-		CH3-	Н
YA1157	CH3-	72	CH3-	Н
YA1158	СН3-	√ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	CH3-	Н
YA1159	CH3-	\\r,	CH3-	Н
YA1160	CH3-	~~``	CH3~	Н
YA1161	CH3-	7'	CH3-	Н
YA1162	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	СН3-	Н
YA1163	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	CH3-	Н
YA1164	CH3-	× r	CH3-	Н
YA1165	CH3-	7	CH3-	Н
`YA1166	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	CH3-	Н
YA1167	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	СН3-	Н
YA1168	CH3-	^ ^^\	СН3-	Н
YA1169	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	СН3-	Н
YA1170	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	СН3-	Н
YA1171	CH3-		СН3-	Н
YA1172	CH3-		CH3-	Н
YA1173	CH3-		CH3-	Н
YA1174	CH3-		CH3-	. Н
YA1175	CH3-	$\triangleright \rightarrow$	CH3-	Н
YA1176	CH3-	◇ —	CH3-	Н

No.	R1	R2	R3	R4
YA1177	СН3-		CH3-	Н
YA1178	СН3-		снз-	Н
YA1179	CH3-		снз-	Н
YA1180	СН3-	◯ −;	СН3-	H .
YA1181	CH3-		СН3-	Н
YA1182	CH3-		СН3-	Н
YA1183	CH3-	F —	СН3-	Н
YA1184	CH3-	F.	СН3-	Н
YA1185	CH3-	F-{_}{	СН3-	Н
YA1186	CH3-	F	СН3-	Н
YA1187	CH3-	F———	CH3-	Н
YA1188	CH3-	CI	СН3-	. Н
YA1189	CH3-	CI	CH3-	Н
YA1190	CH3-	c⊢(;	CH3-	Н
YA1191	CH3-	c⊢ ()~	СН3-	Н
YA1192	CH3-	CI—⟨	СН3-	н
YA1193	CH3-	Br	CH3-	Н
YA1194	CH3-	Br.	CH3-	Н
YA1195	СН3-	Br—⟨◯	СН3-	Н
YA1196	CH3-	Br -⟨ Ş→{	CH3-	Н
YA1197	СН3-	Br—⟨∑ı⊪⟨	CH3-	Н

No.	R1	R2	R3	R4
YA1198	CH3-		CH3-	Н
YA1199	CH3-		CH3-	Н
YA1200	СН3-	└	снз-	Н
YA1201	СН3-	CH ₃	снз-	H
YA1202	CH3-	H ₃ C	снз-	Н
YA1203	CH3-	H ₃ C-{	снз-	Н
YA1204	CH3-		СН3-	Н
YA1205	СН3-	n-C ₃ H ₇ —{	СН3-	Н
YA1206	CH3-	n-C₄H ₉ —⟨{	CH3-	Н
YA1207	CH3-	OH →	CH3-	Н
YA1208	CH3-	HO	CH3-	Н
YA1209	CH3-	HO-{}}	CH3-	Н
YA1210	СН3-	OCH ₃	CH3-	Н
YA1211	CH3-	H ₃ CO	CH3-	H
YA1212	CH3-	H ₃ CO-{}-{	CH3-	Н
YA1213	CH3-	H ₃ CO-{_}-{	СН3-	Н
YA1214	CH3-	H ₃ CO-{}\{	CH3-	Н
YA1215	CH3-	OC ₂ H ₅	СН3-	Н
YA1216	CH3-	C ₂ H ₅ O .	СН3-	Н
YA1217	СН3-	C ₂ H ₅ O-{	СН3-	Н
YA1218	CH3-	n-C₃H ₇ O- ⟨ _}-{	СН3-	Н

No.	. R1	R2	R3	R4
YA1219	CH3-	n-C ₄ H ₉ O-{}	CH3-	H H
YA1220	CH3-	NO ₂	СН3-	Н
YA1221	CH3-		CH3-	Н
YA1222	CH3-	O ₂ N-{	СН3-	Н
YA1223	CH3-	CN	снз-	Н
YA1224	CH3-	NC 	СН3-	н
YA1225	CH3-	NC-{}	СН3-	Н
YA1226	CH3-	NH ₂	CH3-	Н
YA1227	CH3-	H ₂ N →	CH3-	Н
YA1228	CH3-	H ₂ N-\\\\\\\\\\	CH3-	н
YA1229	CH3-	NMe ₂	СН3-	Н
YA1230	СН3-	Me ₂ N —⋠	CH3-	Н
YA1231	СН3-	Me ₂ N-⟨¯¯⟩{	СН3-	Н
YA1232	CH3-		CH3-	Н
YA1233	CH3-	(N-()	CH3-	Н
YA1234	CH3-		СН3-	Н
YA1235	CH3-	___________________	СН3-	Н
YA1236	CH3-	_N	СН3-	Н
YA1237	CH3-	\\-__\{	СН3-	Н
YA1238	CH3-	O_N-<_>	CH3-	Н
YA1239	CH3-		СН3-	Н

No.	R1	R2	R3	R4
YA1240	CH3-	O_N-{_}-;	СН3-	Н
YA1241	СН3-	H ₃ CN N-	СН3-	Н
YA1242	СН3-	H ₃ CN N-	СН3-	Н
YA1243	СН3-	H ₃ CN_N-{}	CH3-	Н
YA1244	СН3-	OCH₃ F—⟨∑}	CH3-	Н
YA1245	CH3-	OCH ₃	CH3-	Н
YA1246	CH3-	OCH ₃ F——	CH3-	Н
YA1247	CH3-		CH3-	Н
YA1248	CH3-	CCT	CH3-	Н
YA1249	CH3-	СН3-	н	CH3-
YA1250	CH3-	CH3CH2-	Н	CH3-
YA1251	CH3-	<u> </u>	Н	CH3-
YA1252	CH3-	7	Н	СН3-
YA1253	CH3-	\\\ \\	Н	СН3-
YA1254	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	CH3-
YA1255	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СН3-
YA1256	CH3-	7	Н	СН3-
YA1257	CH3-	^ \\\\\	Н	СН3-
YA1258	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	CH3-
YA1259	CH3-	X	Н	CH3-
YA1260	СН3-	7	Н	CH3-

YA1261 CH3- H CH3- YA1262 CH3- H CH3- YA1263 CH3- H CH3- YA1264 CH3- H CH3- YA1265 CH3- H CH3- YA1266 CH3- H CH3- YA1267 CH3- H CH3- YA1268 CH3- H CH3- YA1269 CH3- H CH3- YA1270 CH3- H CH3- YA1271 CH3- H CH3- YA1272 CH3- H CH3- YA1273 CH3- H CH3- YA1274 CH3- H CH3- YA1275 CH3- H CH3- YA1276 CH3- H CH3- YA1277 CH3- H CH3- YA1278 CH3- H CH3-	No.	R1	R2	R3	R4
YA1262 CH3- H CH3- YA1263 CH3- H CH3- YA1264 CH3- H CH3- YA1265 CH3- H CH3- YA1266 CH3- H CH3- YA1267 CH3- H CH3- YA1268 CH3- H CH3- YA1269 CH3- H CH3- YA1270 CH3- H CH3- YA1271 CH3- H CH3- YA1271 CH3- H CH3- YA1273 CH3- H CH3- YA1274 CH3- H CH3- YA1275 CH3- H CH3- YA1276 CH3- H CH3- YA1278 CH3- H CH3-	YA1261	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
YA1264 CH3- H CH3- YA1265 CH3- H CH3- YA1266 CH3- H CH3- YA1267 CH3- H CH3- YA1268 CH3- H CH3- YA1269 CH3- H CH3- YA1270 CH3- H CH3- YA1271 CH3- H CH3- YA1272 CH3- H CH3- YA1273 CH3- H CH3- YA1274 CH3- H CH3- YA1275 CH3- H CH3- YA1276 CH3- H CH3- YA1278 CH3- CH3- H CH3- YA1278 CH3- CH3- H CH3-	YA1262	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		СН3-
YA1265 CH3- H CH3- YA1266 CH3- H CH3- YA1267 CH3- H CH3- YA1268 CH3- H CH3- YA1269 CH3- H CH3- YA1270 CH3- H CH3- YA1271 CH3- H CH3- YA1272 CH3- H CH3- YA1273 CH3- H CH3- YA1274 CH3- H CH3- YA1275 CH3- H CH3- YA1276 CH3- H CH3- YA1278 CH3- H CH3- YA1278 CH3- H CH3-	YA1263	СН3-	^ √ ^ \	Н	CH3-
YA1265 CH3- H CH3- YA1266 CH3- H CH3- YA1267 CH3- H CH3- YA1268 CH3- H CH3- YA1269 CH3- H CH3- YA1270 CH3- H CH3- YA1271 CH3- H CH3- YA1272 CH3- H CH3- YA1273 CH3- H CH3- YA1274 CH3- H CH3- YA1276 CH3- H CH3- YA1277 CH3- H CH3- YA1278 CH3- CH3- H CH3-	YA1264	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	H	CH3-
YA1267 CH3- H CH3- YA1268 CH3- H CH3- YA1269 CH3- H CH3- YA1270 CH3- H CH3- YA1271 CH3- H CH3- YA1272 CH3- H CH3- YA1273 CH3- H CH3- YA1274 CH3- H CH3- YA1275 CH3- H CH3- YA1276 CH3- H CH3- YA1278 CH3- H CH3- YA1278 CH3- H CH3-	YA1265	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	CH3-
YA1268 CH3- H CH3- YA1269 CH3- H CH3- YA1270 CH3- H CH3- YA1271 CH3- H CH3- YA1272 CH3- H CH3- YA1273 CH3- H CH3- YA1274 CH3- H CH3- YA1275 CH3- H CH3- YA1276 CH3- H CH3- YA1278 CH3- CH3- H CH3-	YA1266	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	CH3-
YA1269 CH3- H CH3- YA1270 CH3- H CH3- YA1271 CH3- H CH3- YA1272 CH3- H CH3- YA1273 CH3- H CH3- YA1274 CH3- H CH3- YA1275 CH3- H CH3- YA1276 CH3- H CH3- YA1278 CH3- H CH3- YA1278 CH3- H CH3-	YA1267	CH3-		Н	CH3
YA1270 CH3- H CH3- YA1271 CH3- H CH3- YA1272 CH3- H CH3- YA1273 CH3- H CH3- YA1274 CH3- H CH3- YA1275 CH3- H CH3- YA1276 CH3- H CH3- YA1277 CH3- H CH3- YA1278 CH3- CH3- CH3-	YA1268	CH3-		Н	CH3-
YA1271 CH3- → → → H CH3- YA1272 CH3- → → H CH3- YA1273 CH3- → → H CH3- YA1274 CH3- → → H CH3- YA1275 CH3- → → H CH3- YA1276 CH3- → → H CH3- YA1278 CH3- ✓ H CH3-	YA1269	CH3-		Н	CH3-
YA1272 CH3- H CH3- YA1273 CH3- H CH3- YA1274 CH3- H CH3- YA1275 CH3- H CH3- YA1276 CH3- H CH3- YA1277 CH3- H CH3- YA1278 CH3- CH3- CH3-	YA1270	CH3-	· Control of the con	Н	CH3-
YA1273 CH3- H CH3- YA1274 CH3- H CH3- YA1275 CH3- H CH3- YA1276 CH3- H CH3- YA1277 CH3- H CH3- YA1278 CH3- F H CH3-	YA1271	СН3-	\Diamond	Н	CH3-
YA1274 CH3- H CH3- YA1275 CH3- H CH3- YA1276 CH3- H CH3- YA1277 CH3- H CH3- YA1278 CH3- F H CH3-	YA1272	CH3-	$\bigcirc \dashv$	Н	CH3-
YA1275 CH3- H CH3- YA1276 CH3- H CH3- YA1277 CH3- H CH3- YA1278 CH3- F	YA1273	CH3-		Н	CH3-
YA1276 CH3-	YA1274	CH3-		Н	СН3-
YA1277 CH3- H CH3-	YA1275	CH3-		Н	CH3-
YA1278 CH3- /	YA1276	CH3-		Н	СН3-
YA1278 CH3- H CH3-	YA1277	CH3-	<u></u>	н	СН3-
	YA1278	CH3-	F ∰-;	Н	CH3-
YA1279 CH3- H CH3-	YA1279	CH3-	F	Н	CH3-
YA1280 CH3- F	YA1280	СН3-	F-{_}{	Н	CH3-
YA1281 CH3- F	YA1281	СН3-	F-()-{	Н	CH3-

No.	. R1	R2	R3	R4
YA1282	СН3-	F-{	Н	CH3-
YA1283	СН3-	CI	Н	CH3-
YA1284	СН3-	CI	Н	СН3-
YA1285	CH3-	CH{}	Н	CH3-
YA1286	СН3-	CH	Н	CH3-
YA1287	CH3-	CI—(Н	CH3-
YA1288	CH3-	Br ∰-{	Н	CH3-
YA1289	CH3-	Br{\}_{\}	Н	CH3-
YA1290	CH3-	Br—{}	Н	CH3-
YA1291	CH3-	Br—	н	СН3-
YA1292	CH3-	Br————	Н	CH3-
YA1293	CH3-	_\{\}_\{	Н	СН3-
YA1294	CH3-		Н	CH3-
YA1295	CH3-	-	Н	CH3-
YA1296	CH3-	CH ₃	н	CH3-
YA1297	CH3-	H ₃ C	Н	CH3-
YA1298	CH3-	H ₃ C-{{}	. Н	CH3-
YA1299	CH3-	C ₂ H ₅ —{{{ }}	Н	CH3-
YA1300	CH3-	n-C ₃ H ₇ {}_{}	Н	CH3-
YA1301	СН3-	n-C ₄ H ₉ —{{}}	Н	CH3-
YA1302	CH3-	он √⊣	Н	CH3-

No.	I R1	R2	T 70	
	1	HO RZ	R3	R4
YA1303	CH3-		Н	, CH3-
YA1304	СН3-	HO-{	Н	CH3-
YA1305	снз-	OCH₃ ☐	Н	СН3-
YA1306	CH3-	H ₃ CO	Н	СН3-
YA1307	CH3~	H ₃ CO-{{}	Н	СН3-
YA1308	СН3-	H₃CO-{{}	Н	CH3-
YA1309	СН3-	H ₃ CO-__\\	Н	СН3-
YA1310	СН3-	OC ₂ H ₅	Н	CH3-
YA1311	СН3-	C ₂ H ₅ O —∤	Н	СН3-
YA1312	СН3-	C ₂ H ₅ O-{	Н	СН3-
YA1313	СН3-	n-C ₃ H ₇ O-	Н	CH3-
YA1314	CH3-	n-C ₄ H ₉ O-{}{	Н	CH3-
YA1315	CH3-	NO ₂	Н	СН3-
YA1316	CH3-	O ₂ N —∤	Н	СН3-
YA1317	CH3-	O ₂ N-{}	Н	CH3-
YA1318	CH3-	CN ∰⊰	н	CH3-
YA1319	CH3-	NC →	. Н	CH3-
YA1320	CH3-	NC-{}-{	Н	CH3-
YA1321	СН3-	NH ₂	Н	. СН3-
YA1322	СН3-	H ₂ N →	Н	CH3-
YA1323	CH3-	H ₂ N-(-)	Н	CH3-

YA1324 CH3- NMe₂ N H CH3- YA1325 CH3- Me₂ N H CH3- YA1326 CH3- Me₂ N H CH3- YA1327 CH3- N H CH3- YA1328 CH3- N H CH3- YA1329 CH3- N H CH3- YA1330 CH3- N H CH3- YA1331 CH3- N H CH3- YA1332 CH3- N H CH3- YA1333 CH3- N H CH3- YA1334 CH3- N H CH3- YA1335 CH3- N H CH3- YA1336 CH3- H ₃ CN N H CH3- YA1337 CH3- H ₃ CN N H CH3- YA1338 CH3- H ₃ CN N H CH3-	No.	. R1	R2	R3	R4
YA1325 CH3- H CH3- YA1326 CH3- Me₂N- H CH3- YA1327 CH3- H CH3- YA1328 CH3- N- H CH3- YA1329 CH3- N- H CH3- YA1330 CH3- N- H CH3- YA1331 CH3- N- H CH3- YA1332 CH3- N- H CH3- YA1333 CH3- N- H CH3- YA1334 CH3- N- H CH3- YA1335 CH3- N- H CH3- YA1336 CH3- H ₃ CN N- H CH3- YA1338 CH3- H ₃ CN N- H CH3- YA1338 CH3- H ₃ CN N- H CH3-			NMe ₂	1	
YA1327 CH3- N- H CH3- YA1328 CH3- N- H CH3- YA1329 CH3- N- H CH3- YA1330 CH3- N- H CH3- YA1331 CH3- N- H CH3- YA1332 CH3- N- H CH3- YA1333 CH3- N- H CH3- YA1334 CH3- N- H CH3- YA1335 CH3- H CH3- H CH3- YA1336 CH3- H ₃ CN N- H CH3- YA1338 CH3- H ₃ CN N- H CH3- YA1338 CH3- H ₃ CN N- H CH3-	YA1325	CH3-		Н	СН3-
YA1328 CH3- N- H CH3- YA1329 CH3- N- H CH3- YA1330 CH3- N- H CH3- YA1331 CH3- N- H CH3- YA1332 CH3- N- H CH3- YA1333 CH3- N- H CH3- YA1334 CH3- N- H CH3- YA1335 CH3- N- H CH3- YA1336 CH3- H ₃ CN N- H CH3- YA1337 CH3- H ₃ CN N- H CH3- YA1338 CH3- H ₃ CN N- H CH3-	YA1326	СН3-	Me ₂ N—(Н	CH3-
YA1329 CH3- N- H CH3- YA1330 CH3- N- H CH3- YA1331 CH3- N- H CH3- YA1332 CH3- N- H CH3- YA1333 CH3- N- H CH3- YA1334 CH3- N- H CH3- YA1335 CH3- N- H CH3- YA1336 CH3- H3CN N- H CH3- YA1337 CH3- H3CN N- H CH3- YA1338 CH3- H3CN N- H CH3-	YA1327	СН3-	N-√	н	CH3-
YA1330 CH3- N- H CH3- YA1331 CH3- N- H CH3- YA1332 CH3- N- H CH3- YA1333 CH3- N- H CH3- YA1334 CH3- N- H CH3- YA1335 CH3- N- H CH3- YA1336 CH3- H3CN N- H CH3- YA1337 CH3- H3CN N- H CH3- YA1338 CH3- H3CN N- H CH3-	YA1328	СН3-	CN-€	Н	CH3-
YA1331 CH3- N- H CH3- YA1332 CH3- N- H CH3- YA1333 CH3- H CH3- YA1334 CH3- H CH3- YA1335 CH3- H CH3- YA1336 CH3- H3CN N- H CH3- YA1337 CH3- H3CN N- H CH3- YA1338 CH3- H3CN N- H CH3-	YA1329	CH3-	_N-{_}-i	Н	CH3-
YA1332 CH3- N- H CH3- YA1333 CH3- N- H CH3- YA1334 CH3- N- H CH3- YA1335 CH3- N- H CH3- YA1336 CH3- H3CN N- H CH3- YA1337 CH3- H3CN N- H CH3- YA1338 CH3- H3CN N- H CH3-	YA1330	CH3-	\(\times_n\)	Н	CH3-
YA1333 CH3- ON- H CH3- YA1334 CH3- ON- H CH3- YA1335 CH3- ON- H CH3- YA1336 CH3- H3CN N- H CH3- YA1337 CH3- H3CN N- H CH3- YA1338 CH3- H3CN N- H CH3-	YA1331	СН3-	\(\n \- \left(\right) \).	Н	CH3-
YA1334 CH3- ON- H CH3- YA1335 CH3- ON- H CH3- YA1336 CH3- H3CN N- H CH3- YA1337 CH3- H3CN N- H CH3- YA1338 CH3- H3CN N- H CH3-	YA1332	CH3-	_N- <u>_</u> }	H	CH3-
YA1334 CH3- H CH3- YA1335 CH3- H CH3- YA1336 CH3- H3CN N- H CH3- YA1337 CH3- H3CN N- H CH3- YA1338 CH3- H3CN N- H CH3-	YA1333	CH3-	0_N-	н	СН3-
YA1336 CH3- H3CN N- H CH3- YA1337 CH3- H3CN N- H CH3- YA1338 CH3- H3CN N- H CH3- YA1338 CH3- H3CN N- H CH3-	YA1334	СН3-	O_N-⟨	Н	CH3-
YA1337 CH3- H ₃ CN N-	YA1335	СН3-	O_N-{_}-{	Н	CH3-
YA1338 CH3- H3CN N- H CH3-	YA1336	CH3-	H ₃ CN N	Н	CH3-
VA1000 OHO CH3	YA1337	CH3-	H ₃ CN N-	Н	CH3-
VA1000 QUO C==(YA1338	CH3-		Н	CH3-
	YA1339	CH3-	F-(-);	Н	CH3-
YA1340 CH3- F-CH3-	YA1340	СН3-	F-(-)	. Н	CH3-
YA1341 CH3−	YA1341	СН3-		Н	CH3-
YA1342 CH3- H CH3-	YA1342	СН3-		Н	CH3-
YA1343 CH3- H CH3-	YA1343	СН3-	OCC 's	Н	СН3-
YA1344 CH3CH2- CH3- H H	YA1344	CH3CH2-	CH3-	Н	Н

No.	R1	R2	R3	R4
YA1345	СН3СН2-	CH3CH2~	Н	Н
YA1346	CH3CH2-	<u> </u>	Н	Н
YA1347	CH3CH2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
YA1348	CH3CH2-	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
YA1349	CH3CH2-	人、	Н	Н
YA1350	CH3CH2-	1	Н	Н
YA1351	CH3CH2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
YA1352	CH3CH2-	^ \\\	Н	Н
YA1353	CH3CH2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
YA1354	CH3CH2-	Xx	Н	Н
YA1355	CH3CH2-	7	Н	Н
YA1356	CH3CH2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
YA1357	CH3CH2-		Н	Н
YA1358	CH3CH2-	^	Н	Н
YA1359	СН3СН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
YA1360	CH3CH2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
YA1361	CH3CH2-	٠, ١	Н	Н
YA1362	CH3CH2-		Н	Н
YA1363	СН3СН2-	7	Н	Н
YA1364	СН3СН2-		Н	Н
YA1365	CH3CH2-	ightharpoonup	Н	Н

No.	R1 R2	I Do I	
		R3	R4
YA1366	CH3CH2-	H	Н
YA1367	CH3CH2-	н	Н
YA1368	CH3CH2-	Н	Н
YA1369	CH3CH2-	Н	Н
YA1370	снзсн2-	Н	Н
YA1371	CH3CH2-	Н	Н
YA1372	CH3CH2-	Н	Н
YA1373	CH3CH2-	Н	Н
YA1374	CH3CH2-	Н	Н
YA1375	CH3CH2- F	Н	Н
YA1376	CH3CH2- F-	Н	Н
YA1377	CH3CH2- F-	Н	Н
YA1378	CH3CH2−	Н	Н
YA1379	CH3CH2-CI	Н	Н
YA1380	CH3CH2- CH	Н	Н
YA1381	CH3CH2- CI-	Н	Н
YA1382	CH3CH2− CH√	Н	Н
YA1383	CH3CH2-	Н	Н
YA1384	CH3CH2-	н	Н
YA1385	CH3CH2-Br-{	н	Н
YA1386	CH3CH2-Br-	Н	Н

No.	R1 R2	R3	R4
YA1387	CH3CH2− Br—⟨\in-{	Н	Н
YA1388	CH3CH2-	Н	Н
YA1389	CH3CH2-	Н	Н
YA1390	CH3CH2-	Н	Н
YA1391	CH3CH2-	Н	Н
YA1392	CH3CH2-	Н	Н
YA1393	CH3CH2- H ₃ C-\{}	Н	Н
YA1394	CH3CH2- C ₂ H ₅ {	Н	Н
YA1395	снзсн2- n-С ₃ Н ₇ -√}	Н	Н
YA1396	CH3CH2- n-C ₄ H ₉ -	Н	Н
YA1397	CH3CH2-	Н	Н
YA1398	CH3CH2-	Н	Н
YA1399	CH3CH2- HO-	Н	Н
YA1400	CH3CH2− OCH ₃	н	Н
YA1401	CH3CH2-	Н	Н
YA1402	CH3CH2- H ₃ CO-\{	Н	Н
YA1403	CH3CH2- H ₃ CO-	Н .	Н
YA1404	CH3CH2− H ₃ CO-√∑\\\	Н	Н
YA1405	CH3CH2- OC ₂ H ₅	Н	Н
YA1406	CH3CH2- C ₂ H ₅ O	Н	Н
YA1407	CH3CH2- C ₂ H ₅ O-{	Н	Н

No.	R1 R2	R3	R4
YA1408	CH3CH2- n-C ₃ H ₇ O-	Н	Н
YA1409		Н	Н
YA1410	CH3CH2- NO ₂	Н	Н
YA1411	CH3CH2- O ₂ N	Н	Н
YA1412	CH3CH2- O ₂ N{	Н	Н
YA1413	CH3CH2-	Н	Н
YA1414	CH3CH2- NC	Н	Н
YA1415	CH3CH2- NC-{	Н	Н
YA1416	CH3CH2− NH ₂	Н	Н
YA1417	CH3CH2-	Н	Н
YA1418	CH3CH2- H ₂ N-	Н	Н
YA1419	CH3CH2− NMe ₂	Н	Н
YA1420	CH3CH2- Me ₂ N	Н	Н
YA1421	CH3CH2- Me ₂ N-	Н	Н
YA1422	CH3CH2-	Н	Н
YA1423	CH3CH2-	Н	Н
YA1424	CH3CH2-	н	Н
YA1425	CH3CH2-	Н	Н
YA1426	CH3CH2- N-	Н	Н
YA1427	CH3CH2- N-C	Н	Н
YA1428	CH3CH2-	Н	Н

No.	R1	R2	R3	R4
YA1429	CH3CH2-	O_N-⟨	Н	Н
YA1430	СН3СН2-	o_n}	Н	Н
YA1431	СН3СН2-	H ₃ CN N-	Н	Н
YA1432	СН3СН2-	H3CN N-	Н	Н
YA1433	CH3CH2-	H3CN N-{_}}	Н	Н
YA1434	СН3СН2-	, ,	н	Н
YA1435	CH3CH2-		Н	Н
YA1436	CH3CH2-	OCH ₃	Н	Н
YA1437	CH3CH2-		Н	Н
YA1438	СНЗСН2-	CCC 4	Н	Н
YA1439	СНЗСН2-	CH3-	Н	СН3-
YA1440	СНЗСН2-	CH3CH2-	Н	CH3-
YA1441	CH3CH2-	∕ ∕∖\	Н	СН3-
YA1442	CH3CH2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	CH3-
YA1443	CH3CH2-	\\\\\	Н	OH3-
YA1444	CH3CH2-	人、	Н	CH3-
YA1445	СНЗСН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	CH3-
YA1446	CH3CH2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	CH3-
YA1447	СН3СН2-	^ \\\	Н	СН3-
YA1448	СН3СН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	CH3-
YA1449	СН3СН2-	× 1	Н	CH3-

No. R1 R2 R3 R4 YA1450 CH3CH2- H CH3- YA1451 CH3CH2- H CH3- YA1452 CH3CH2- H CH3- YA1453 CH3CH2- H CH3- YA1454 CH3CH2- H CH3- YA1455 CH3CH2- H CH3- YA1456 CH3CH2- A H CH3- YA1457 CH3CH2- A H CH3- YA1457 CH3CH2- A H CH3-	
YA1451 CH3CH2- H CH3- YA1452 CH3CH2- H CH3- YA1453 CH3CH2- H CH3- YA1454 CH3CH2- H CH3- YA1455 CH3CH2- H CH3- YA1456 CH3CH2- H CH3- YA1457 CH3CH2- H CH3-	
YA1453 CH3CH2- YA1454 CH3CH2- YA1455 CH3CH2- H CH3- H CH3- YA1456 CH3CH2- H CH3- H CH3- YA1457 CH3CH2- H CH3-	
YA1453 CH3CH2- H CH3- YA1454 CH3CH2- H CH3- YA1455 CH3CH2- H CH3- YA1456 CH3CH2- \(\frac{1}{2} \) H CH3-	
YA1455 CH3CH2- Н СН3- YA1456 CH3CH2- 2\ H СН3-	
YA1456 CH3CH2	
VA1457 QUIQUIQ	
YA1457 CH3CH2- H CH3-	
YA1458 CH3CH2- H CH3-	_
YA1459 CH3CH2- H CH3-	
YA1460 CH3CH2-	
YA1461 CH3CH2-	
YA1462 CH3CH2-	
YA1463 CH3CH2-	
YA1464 CH3CH2- H CH3-	
YA1465 CH3CH2-	
YA1466 CH3CH2- H CH3-	
YA1467 CH3CH2- III-	
YA1468 CH3CH2- F H CH3-	
YA1469 CH3CH2- F H CH3-	
YA1470 CH3CH2- H CH3-	

No.	R1	R2	R3	R4
YA1471	СН3СН2-	F—	Н	CH3-
YA1472	CH3CH2	F———Ind	Н	CH3
YA1473	СН3СН2-	CI	Н	CH3-
YA1474	СНЗСН2-	CI{	Н	CH3-
YA1475	СН3СН2-	c⊢	Н	CH3-
YA1476	CH3CH2-	c⊢({	Н	CH3-
YA1477	СН3СН2-	CH	Н	CH3-
YA1478	CH3CH2-	Br ∰_{	Н	CH3-
YA1479	СН3СН2-	Br.	Н	СН3-
YA1480	СН3СН2-	Br—{_}_{{}	н	СН3-
YA1481	СН3СН2-	Br — ↓	н	CH3-
YA1482	CH3CH2-	Br—⟨〉ぃۥ╡	Н	`CH3-
YA1483	СН3СН2-	△	Н	СН3-
YA1484	СН3СН2-	 	Н	СН3-
YA1485	СН3СН2-	├ ──}-{	Н	СН3-
YA1486	СН3СН2-	CH ₃ ∰-{	Н	СН3-
YA1487	CH3CH2-	H ₃ C 	. Н	СН3-
YA1488	CH3CH2-	H ₃ C-{{}	Н	CH3-
YA1489	CH3CH2-	C ₂ H ₅ —{}	Н	CH3-
YA1490	СН3СН2-		н	CH3-
YA1491	CH3CH2-	n-C ₄ H ₉ —(Н	CH3-

No. R1 R2 R3 R4 YA1492 CH3CH2- OH H CH3- YA1493 CH3CH2- HO H CH3- YA1494 CH3CH2- HO H CH3- YA1495 CH3CH2- HO H CH3- YA1496 CH3CH2- H3CO H CH3- YA1497 CH3CH2- H3CO H CH3- YA1498 CH3CH2- H3CO H CH3- YA1499 CH3CH2- H3CO H CH3- YA1500 CH3CH2- C2H5O H CH3- YA1501 CH3CH2- C2H5O H CH3- YA1502 CH3CH2- C2H5O H CH3- YA1504 CH3CH2- N-C3H7O H CH3- YA1504 CH3CH2- N-C4H9O H CH3-	
YA1493 CH3CH2- H CH3- YA1494 CH3CH2- HO- H CH3- YA1495 CH3CH2- JOCH3 H CH3- YA1496 CH3CH2- H3CO- H CH3- YA1497 CH3CH2- H3CO- H CH3- YA1498 CH3CH2- H3CO- H CH3- YA1499 CH3CH2- H3CO- H CH3- YA1500 CH3CH2- JC2H5O- H CH3- YA1501 CH3CH2- C2H5O- H CH3- YA1503 CH3CH2- N-C4H5O- H CH3- YA1504 CH3CH2- N-C4H5O- H CH3-	_
YA1495 CH3CH2- OCH3 H CH3- YA1496 CH3CH2- H3CO H CH3- YA1497 CH3CH2- H3CO H CH3- YA1498 CH3CH2- H3CO H CH3- YA1499 CH3CH2- H3CO H CH3- YA1500 CH3CH2- H CH3- YA1501 CH3CH2- H CH3- YA1502 CH3CH2- C2H5O H CH3- YA1503 CH3CH2- N-C4H2O H CH3- YA1504 CH3CH2- N-C4H2O H CH3-	
YA1495 CH3CH2- H CH3- YA1496 CH3CH2- H3CO H CH3- YA1497 CH3CH2- H3CO H CH3- YA1498 CH3CH2- H3CO H CH3- YA1499 CH3CH2- H3CO H CH3- YA1500 CH3CH2- H CH3- YA1501 CH3CH2- C2H5O H CH3- YA1502 CH3CH2- C2H5O H CH3- YA1503 CH3CH2- In-C3H7O H CH3- YA1504 CH3CH2- In-C4HoO H CH3-	
YA1496 CH3CH2- H CH3- YA1497 CH3CH2- H3CO- H CH3- YA1498 CH3CH2- H3CO- H CH3- YA1499 CH3CH2- H3CO- H CH3- YA1500 CH3CH2- CH3CH2- H CH3- YA1501 CH3CH2- C2H5O- H CH3- YA1502 CH3CH2- C2H5O- H CH3- YA1503 CH3CH2- N-C4H2O- H CH3- YA1504 CH3CH2- N-C4H2O- H CH3-	
YA1498 CH3CH2- H_3 CO- H CH3- YA1499 CH3CH2- H_3 CO- H CH3- YA1500 CH3CH2- C_2 H5- H CH3- YA1501 CH3CH2- C_2 H5O- H CH3- YA1502 CH3CH2- C_2 H5O- H CH3- YA1503 CH3CH2- C_3 H7O- H CH3- YA1504 CH3CH2- C_3 H7O- H CH3-	-
YA1499 CH3CH2- H_3 CO- H CH3- YA1500 CH3CH2- C_2H_5 H CH3- YA1501 CH3CH2- C_2H_5 O- H CH3- YA1502 CH3CH2- C_2H_5 O- H CH3- YA1503 CH3CH2- C_3H_7 O- H CH3- YA1504 CH3CH2- C_3H_7 O- H CH3-	
YA1500 CH3CH2- OC2H5 H CH3- YA1501 CH3CH2- C2H5O H CH3- YA1502 CH3CH2- C2H5O H CH3- YA1503 CH3CH2- n -C3H7O H CH3-	
YA1500 CH3CH2- \bigcirc	
YA1501 CH3CH2- CH3CH2- H CH3- YA1502 CH3CH2- C_2H_5O - H CH3- YA1503 CH3CH2- n - C_3H_7O - H CH3- YA1504 CH3CH2- n - C_4H_2O - H CH3-	
YA1503 CH3CH2- n-C ₃ H ₇ O- H CH3-	
VA1504 OH2OUR N-C4H0O-	
YA1504 CH3CH2- n-C ₄ H ₉ O-	
51.5	
YA1505 CH3CH2- NO ₂ H CH3-	
YA1506 CH3CH2- O ₂ N H CH3-	
YA1507 CH3CH2- O ₂ N- H CH3-	
YA1508 CH3CH2- CN H CH3-	
YA1509 CH3CH2-	
YA1510 CH3CH2- NC- H CH3-	
YA1511 CH3CH2− NH₂ H CH3−	
YA1512 CH3CH2- H ₂ N H CH3-	

No.	R1	R2	R3	R4
YA1513	СН3СН2-	H_2N	н	CH3
YA1514	СН3СН2-	NMe ₂ →	Н	CH3-
YA1515	СНЗСН2-	Me₂N	Н	CH3-
YA1516	CH3CH2-	Me ₂ N-\\\	Н	CH3-
YA1517	CH3CH2-	CN-S	Н	CH3-
YA1518	CH3CH2-	CN-C	Н	CH3-
YA1519	CH3CH2-	_N-{_}-{	Н	СН3-
YA1520	СНЗСН2-	\(\ni_{\sqrt{\sq}}\sqrt{\sq}}}}}}}}}\sqit{\sqrt{\sq}}}}}}}}}}\signitiqen\sqrt{\sqrt{\sq}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}	Н	CH3-
YA1521	CH3CH2-	\(\rightarrow\)	Н	CH3-
YA1522	CH3CH2-	_\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СН3-
YA1523	CH3CH2-	O_N-{	Н	CH3-
YA1524	CH3CH2-	O_N-{_}}	Н	СН3-
YA1525	СН3СН2-	o_n-{_}-{ 	н	СН3-
YA1526	CH3CH2-	H₃CN_N-⟨_⟩	Н	СН3-
YA1527	CH3CH2-	H ₃ CN_N-	Н	CH3-
YA1528	CH3CH2-	H ₃ CN_N-{_}}	Н	СН3-
YA1529	СНЗСН2-	OCH ₃	Н	CH3~
YA1530	СНЗСН2-	OCH ₃	Н	СН3-
YA1531	СН3СН2-	OCH ₃ F—	Н	СН3-
YA1532	CH3CH2-		Н	CH3-
YA1533	CH3CH2-	OCY's	Н	CH3-

No.	STRUCTURE
YA1534	CH ₃ O CH ₃ O CH ₃ O CH ₃
YA1535	CIH CIH NN O CH ₃
YA1536	CIH CIH N N O CH ₃
YA1537	H ₃ C N CH ₃

VA1520 :	
YA1538	N N
	OH N CH ₃
YA1539	N
	H ₃ C CH ₃
	ĊH₃
YA1540	H ₃ C N CH ₃
YA1541	CI N N N CH ₃

YA1542	
	CIH N N CH ₃
YA1543	CI N N CH ₃
YA1544	HCI HCI N N N N CH ₃

VA 15 45	
YA1545	HCI N N HCI N CH ₃
YA1546	HCI HCI HCI N N N CH ₃ C O CH ₃
YA1547	N N N O CH ₃

YA1548	LICI N.
•	HCI HCI NN N N N N N N CH ₃ C
YA1549	HCI HCI N N N N N N CH ₃ C
YA1550	CH ₃ HCI N N CH ₃ O CH ₃

VALEE	
YA1551	CIH CIH N N CH3
YA1552	N CH ₃
YA1553	HCI HCI N N CH ₃

YA1554	
	HCI HCI N N CI CH ₃
YA1555	HCI HCI N N CH ₃
YA1556	HCI HCI HCI N N N N O CH ₃
YA1557	HCI HCI NN N HCI NCH ₃

VA4550	
YA1558	H ₃ C O N N N O CH ₃
YA1559	HCI HCI N N N N N O CH ₃
YA1560	H ₃ C HCI HCI N N N CH ₃ O CH ₃

YA1561	
	HCI N N N CH ₃
YA1562	HO
YA1563	HCI HCI N N N N CH ₃
YA1564	HCI HCI N N N O CH ₃

YA1565	
	N N N CH ₃
YA1566	H ₃ C N N N O CH ₃
YA1567	HO N N N CH ₃
YA1568	N N N CH ₃

YA1569	
	HO N N N O CH ₃
YA1570	H ₃ C N N N O CH ₃
YA1571	H ₃ C N N N O CH ₃
YA1572	H ₃ C S N N N N O CH ₃

YA1573	N N N N CH ₃
YA1574	F F O N N N O CH ₃
YA1575	E F

YA1576	
	H ₃ C N N N N CH ₃
YA1577	N CH ₃
YA1578	CH ₃ CH ₃ O N N N O CH ₃

YA1579	CIT
	CH ₃ O CH ₃ O CH ₃ O CH ₃
YA1580	CI N N O CH ₃
YA1581	CI CI CI CI CH ₃
YA1582	CI N N N N CH ₃

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YA1583	
	N N N CH ₃
YA1584	H ₃ C O N N N O CH ₃
YA1585	H ₃ C O N N N O CH ₃
YA1586	CH ₃ S N N N O CH ₃

YA1587	
	H ₃ C N N CH ₃
YA1588	H ₃ C N N N O CH ₃
YA1589	H ₂ N O CH ₃
YA1590	Br N O CH ₃

Table-4

Table-4						
$\begin{array}{c} R_{2} \\ R_{3} \\ R_{4} \\ R_{5} \end{array}$						
No.	R1	R2	R3	R4	R5	
YB1	СН3-	СН3-	Н	н .	Н	
YB2	СН3-	СН3СН2-	Н	Н	H	
YB3	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	Н	
YB4	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	Н	
YB5	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	Н	
YB6	снз-	<u></u>	Н	н	Н	
YB7	СН3-	7'	Н	Н	Н	
YB8	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	H	Н	
YB9	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	Н	
YB10	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	H	Н	
YB11	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	Н	
YB12	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	H ·	н	Н	
YB13	CH3-	Oor	Н	Н	Н	
YB14	СН3-	Qai	Н	Н	Н	
YB15	CH3- :	0,	Н	Н	Н	

No.	R1	R2	R3	R4	R5
YB16	СН3-		Н	Н	H
YB17	СН3-		Н	Н	Н
YB18	СН3-	<u></u>	Н	Н	Н
YB19	СН3-	F	Н	Н	Н
YB20	СН3-	F;	Н	Н	Н
YB21	СН3-	F-{\rightarrow}\{	Н	Н	Н
YB22	СН3-	CI	Н	Н	Н
YB23	СН3-	CI	Н	н	Н
YB24	СН3-	C-(Н	Н	Н
YB25	СН3-	Br	Н	Н	H
YB26	CH3-	Br.	Н	Н	Н
YB27	CH3-	Br- (_){	Н	Н	Н
YB28	СН3-	CH ₃	Н	Н	Н
YB29	СН3-	H ₃ C	Н	Н	Н
YB30	CH3-	H ₃ C-{{{}}	Н	Н	Н
YB31	СН3-	C ₂ H ₅ —{{{ }}	Н	Н	Н
YB32	СН3-	OH →	Н	Н	Н
YB33	СН3	HO	Н	H	Н

No.	R1	R2	R3	R4	R5
YB34	СН3-	HO-{	Н	н	Н
YB35	СН3-	OCH₃	Н	Н	Н
YB36	СН3-	H ₃ CO	Н	Н	Н
YB37	СН3-	H ₃ CO-{	Н	Н	Н
YB38	СН3-	C ₂ H ₅ O-{}{	Н	Н	Н
YB39	СН3-	NO ₂	Н	Н	Н
YB40	СН3-	O ₂ N	н	Н	Н
YB41	СН3-	O_2N-	Н	Н	Н
YB42	СН3-	CN	Н	Н	Н
YB43	СН3-	NC	Н	Н	Н
YB44	СН3-	NC-{\rightarrow}-{\rightarrow}	Н	Н	Н
YB45	СН3-	CNO	Н	Н	н
YB46	СН3-		H	Н	Н
YB47	СН3-	CCY	H	Н	Н
YB48	СН3-	ON N	Η .	Н	Н
YB49	СН3-	F-CNN	Н	Н	Н
YB50	СН3-	Q.N	Н	Н	Н
YB51	СН3-	O'N N	Н	Н	Н

No.	R1	R2	R3	R4	R5
YB52	СН3-	₽	ОН	Н	Н
YB53	снз-	F -}	ОН	Н	Н
YB54	СН3-	F	ОН	Н	Н
YB55	СН3-	F{}-{	ОН	Н	Н
YB56	снз-	CI	ОН	н	Н
YB57	снз-	CI	ОН	Н	Н
YB58	СН3-	CH	ОН	Н	Н
YB59	снз-	Br	ОН	н	Н
YB60	СН3-	Br.	ОН	Н	Н
YB61	СН3-	Br—{	ОН	Н	Н
YB62	СН3-	CH ₃	он	Н	Н
YB63	СН3-	H ₃ C	ОН	Н	Н
YB64	СН3-	H ₃ C-{	ОН	H .	Н
YB65	CH3-	C ₂ H ₅ —{	ОН	Н	Н
YB66	CH3-	OH	ОН	Н	Н
YB67	СН3-	HO →	ОН	Н	Н
YB68	CH3-	HO-{\bigs_}	ОН	Н	Н
YB69	СН3-	OCH₃ <	ОН	Н	Н

No.	R1	R2 H ₃ CQ	R3	R4	R5
YB70	СН3-	H ₃ CO	ОН	Н	Н
YB71	СН3-	H ₃ CO-{{}	ОН	Н	Н
YB72	СН3-	C ₂ H ₅ O-{}	ОН	Н	Н
YB73	СН3-	NO ₂	ОН	Н	Н
YB74	СН3-	O ₂ N	ОН	Н	Н
YB75	СН3-	O ₂ N-{}	он	Н	Н
YB76	СН3-	CN	он	н	Н
YB77	СН3-	NC	он	Н	Н
YB78	СН3-	NC-{_}{	ОН	Н	Н
YB79	СН3-		ОН	Н	Н
YB80	СН3-		он	Н	Н
YB81	СН3-	CCT	ОН	Н	Н
YB82	CH3-	<u></u>	CN	Н	Н
YB83	CH3-	F	CN	Н	Н
YB84	CH3-	F	CN	Н	Н
YB85	СН3-	F-{_}_{;	CN	Н	Н
YB86	СН3-	CI <u></u>	GN	Н	Н
YB87	GH3-	CI{i	CN	Н	Н

No.	R1	R2	R3	R4	IDE
YB88	СН3-	CI—{_}{	CN	H	R5
YB89	СН3-	Br	CN	Н	н
YB90	CH3-	Br.	GM	Н	Н
YB91	СН3-	Br—{	CN	Н	Н
YB92	СН3-	CH ₃	CN	Н	Н
YB93	СН3-	H ₃ C	CN	Н	н
YB94	СН3-	H ₃ C-{{{}}	CN	Н	Н
YB95	СН3-	C ₂ H ₅ —{	GN	Н	Н
YB96	СН3-	OH	CN	Н	Н
YB97	СН3-	HO	CN	Н	Н
YB98	СН3-	HO-{\bigs_}	CN	Н	Н
YB99	СН3-	OCH₃	CN	Н	Н
YB100	СН3-	H ₃ CO	GN	Н	Н
YB101	СН3-	H ₃ CO-{	CN	Н	Н
YB102	СН3-	C_2H_5O-	CN	Н	Н
YB103	СН3-	NO ₂	CN	Н	Н
YB104	СН3-	O ₂ N	CN	Н	Н
YB105	СН3-	O ₂ N-{	CN	Н	Н

No.	R1	R2	R3	ID4	Ine
		CN	ILO	R4	R5
YB106	СН3-	√	CN	Н	Н
YB107	CH3-	NC	CN	Н	Н
YB108	СН3-	NC-{}	CN	Н	Н
YB109	СН3-	ChO	CN	Н	Н
YB110	СН3-		GN	Н	Н
YB111	СН3-	CCY	CN	Н	Н
YB112	СН3	Н	Н	СН3-	Н
YB113	СН3-	Н	Н	CH3CH2-	Н
YB114	СН3-	н	Н	∕ ∖\\	Н
YB115	СН3-	Н	Н	72	Н
YB116	СН3-	н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н
YB117	СН3-	Н	Н	١,٠	Н
YB118	CH3-	Н	Н	7,74	Н
YB119	СН3-	Н	Н	^ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н
YB120	CH3-	Н	Η .	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н
YB121	СН3-	Н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н
YB122	СН3-	Н	Н	^	Н
YB123	СН3-	Н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н

No.	R1	R2		R3	R4	R5
YB124	СН3-	Н		- 		H
YB125	СН3-	Н	ŀ	-1		Н
YB126	CH3-	H	ŀ	-1		Н
YB127	СН3-	Н	ŀ	1	◯ ~;	Н
YB128	СН3-	Н	 	i	F -{	Н
YB129	СН3-	Н	- -	l	F;	Н
YB130	СН3-	Н	H		F-{_}_{}	Н
YB131	СН3-	Н	H		CI →	Н
YB132	СН3-	Н	Н		CI	Н
YB133	СН3-	Н	Н		CI—{{{\{}}	Н
YB134	СН3	Н	Н		CI	Н
YB135	СН3-	Н	Н		Br	Н
YB136	СН3-	H	Н		Br.	Н
YB137	CH3-	Н	Н		Br—{	Н
YB138	CH3-	Н	Н		CH₃	Н
YB139	СН3-	Н	Н		H ₃ C	Н
YB140	СН3-	Н	Н		H ₃ C-{}-{	Н
YB141	СН3-	Н	Н		C ₂ H ₅ —{{{ 1}}}	Н

No.	R1	R2	R3	DA	lpe.
	4		11/3	R4 OH	R5
YB142	CH3-	Н	Н		Н
YB143	СН3-	Н	Н	HO ————————————————————————————————————	Н
YB144	СН3-	Н	Н	HO-{\bar{\bar{\bar{\bar{\bar{\bar{\bar	Н
YB145	СН3-	Н	Н	OCH ₃	Н
YB146	СН3-	Н	Н	H ₃ CO	Н
YB147	СН3-	Н	Н	H ₃ CO-{	Н
YB148	СН3-	Н	Н	C_2H_5O-	Н
YB149	СН3-	Н	Н	NO ₂	Н
YB150	CH3-	Н	Н	O ₂ N	Н
YB151	СН3-	Н	Н	O ₂ N-{	Н
YB152	СН3-	Н	Н	CN	Н
YB153	СН3-	Н	Н	NC _>_{	Н
YB154	CH3-	Н	Н	NC-{}-{	Н
YB155	CH3-	H	Н		Н
YB156	CH3-	Н	Н .	CCT	Н
YB157	CH3-	Н	Н	FO	Н
YB158	СН3-	Н	Н	H ₃ C	Н
YB159	СН3-	Н	Н	F S	Н

No.	R1	R2	R3	R4	R5
YB160	СН3-	Н	Н	F-CON	Н
YB161	СН3-	Н	Н	F N N	Н
YB162	СН3-	Н	Н	₩.	Н
YB163	СН3-	Н	Н		Н
YB164	СН3-	Н	Н	<u></u>	ОН
YB165	СН3-	Н	Н	F S	ОН
YB166	CH3-	Н	Н	F	ОН
YB167	CH3-	Н	н	F—(ОН
YB168	СН3-	Н	Н	CI	ОН
YB169	СН3-	Н	Н	CI.	ОН
YB170	CH3-	Н	Н	C⊢(;	ОН
YB171	СН3-	Н	Н	Br	ОН
YB172	СН3-	Н	Н	Br.	ОН
YB173	СН3-	Н	Н	Br—{}	ОН
YB174	CH3-	Н	Н	CH ₃	ОН
YB175	СН3-	Н	Н	H ₃ C	он
YB176	СН3-	Н	Н	H ₃ C-{{{}^{4}}}	ОН
YB177	СН3-	Н	Н	C ₂ H ₅ {	ОН

No.	R1	R2	R3	R4	R5
YB178	СН3-	Н	Н	OH	ОН
YB179	СН3-	Н	Н	HO	ОН
YB180	СН3-	Н	Н	HO-{}	ОН
YB181	СН3-	Н	Н	OCH ₃	ОН
YB182	СН3-	Н	Н	H ₃ CO	ОН
YB183	СН3-	Н	Н	H ₃ CO-{	ОН
YB184	СН3-	Н	Н	C ₂ H ₅ O-{{{\{}}}	ОН
YB185	СН3-	Н	Н	NO ₂	ОН
YB186	СН3-	Н	Н	O ₂ N	ОН
YB187	СН3-	н	Н	O ₂ N-{}	ОН
YB188	CH3-	Н	Н	CN	ОН
YB189	СН3-	Н	Н	NC	он
YB190	CH3-	Н	Н	NC-{_}{	ОН
YB191	CH3-	Н	Н		ОН
YB192	CH3-	Н	Н	CC	ОН
YB193	СН3-	Н	Н	◯ -{	CN
YB194	СН3-	Н	Н	F ;	CN
YB195	СН3-	Н	Н	F	CN

No.	R1	R2	R3	R4	R5
YB196	СН3-	н	Н	F-{_}{	CN
YB197	СН3-	Н	Н	CI	GN
YB198	СН3-	н	Н	CI	СИ
YB199	СН3-	Н	Н	CH	CN
YB200	СН3-	Н	Н	Br	СИ
YB201	CH3-	Н	Н	Br.	CN
YB202	СН3-	Н	Н	Br—{_}{	CN
YB203	СН3-	Н	Н	CH₃	CN
YB204	СН3-	Н	Н	H ₃ C	CN
YB205	СН3-	Н	Н	H ₃ C-{	CN
YB206	СН3-	Н	Н	C ₂ H ₅ -{{}	CN
YB207	CH3-	Н	Н	OH ⟨=⟩→	CN
YB208	CH3-	Н	Н	HO ————————————————————————————————————	CN
YB209	СН3-	Н	Н	HO-{\bigcirc}-{\}	CN
YB210	CH3-	Н	Н .	OCH ₃	CN
YB211	СН3-	Н	Н	H ₃ CO	CN
YB212	СН3	Н	Н	H ₃ CO-{{}	CN
YB213	СН3-	Н	Н	C ₂ H ₅ O-{{{ }}}	GN

No.	R1	R2	[D0	ID4	
110.	- \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	11/2	R3	NO ₂	R5
YB214	СН3-	Н	Н	⟨ _}-;	CN
YB215	СН3-	Н	Н	O ₂ N	CN
YB216	СН3-	Н	Н	02N-(CM
YB217	СН3-	Н	Н	CN CN	CN
YB218	СН3-	Н	Н	NC _\{	CM
YB219	СН3-	Н	Н	NC-{}-{	CN
YB220	СН3-	Н	Н		GN
YB221	CH3-	Н	Н	CC 1	CN
YB222	СН3-	Н	Н	⟨ }-{	0
YB223	СН3-	Н	Н	F	0
YB224	СН3-	Н	Н	F.	0
YB225	СН3-	Н	Н	F—()	0
YB226	СН3-	Н	Н	CI	0
YB227	СН3-	Н	Н	CI	, , , , , , , , , , , , , , , , , , ,
YB228	СН3-	Н	Н .	CH{{}}	0
YB229	CH3-	Н	Н	Br	0
YB230	CH3-	Н	Н	Br	0
YB231	CH3	Н	Н	Br—{}	0

No.	R1	R2	R3	R4	155
YB232		Н	Н	CH ₃	R5 O
YB233	СН3-	Н	Н	H ₃ C	0
YB234	СН3-	Н	Н	H ₃ C-{	0
YB235	СН3-	Н	Н	C_2H_5	0
YB236	СН3-	Н	Н	OH →	O
YB237	СН3-	Н	Н	HO	0
YB238	СН3-	Н	н	HO-{\bar{\bar{\bar{\bar{\bar{\bar{\bar	0
YB239	СН3-	Н	Н	OCH₃	0
YB240	СН3-	Н	Н	H ₃ CO	0
YB241	CH3-	Н	Н	H ₃ CO-{_}-{	0
YB242	СН3-	Н	Н	C ₂ H ₅ O-{{{ }}}	0
YB243	СН3-	Н	Н	NO ₂	0
YB244	СН3-	Н	Н	O ₂ N	0
YB245	СН3-	Н	Н	O ₂ N-{	0
YB246	СН3-	Н	Н	CN	0
YB247	СН3-	Н	Н	NC	0
YB248	СН3-	Н	Н	NC-{}-{	0
YB249	CH3-	Н	Н		0

No.	R1	R2	R3	R4	R5
YB250	СН3-	Н	Н	CC)

No.	STRUCTURE
YB251	N N N N O CH ₃
YB252	O CH ₃
YB253	N N CH ₃
YB254	N N N N O CH ₃

YB255	
	N N O CH ₃
	·
YB256	N
	Ň .
	N
	CH ₃
	J. J.
YB257	.N.
	Ŋ
	N N O
	CH ₃
YB258	Br
15200	
	N N O
	Br CH ₃
<u> </u>	

N/DOEO	
YB259	N N CH ₃
YB260	N N N O CH ₃
YB261	H ₃ C N N N O CH ₃
YB262	OCH ₃ N N O CH ₃

YB263	CH ₃ CH ₃
YB264	CH ₃ N N O CH ₃
YB265	Br N N O CH ₃
YB266	HO N N N N N O CH ₃

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VDOCZ	
YB267	CH ₃ CH ₃ N N N N CH ₃ CH ₃
YB268	N N O CH ₃
YB269	N CH ₃
YB270	H ₃ C N N N O CH ₃
YB271	H ₃ C. N N N N N CH ₃

1,450.50	
YB272	O N N N CH ₃
YB273	H ₃ C N
YB274	HO N CH ₃
YB275	N N N N O CH ₃

YB276	N N N N N N CH ₃
YB277	N N O CH ₃
YB278	CH ₃ N N N CH ₃ CH ₃

Particularly preferred compounds of the present invention represented by formula (I) include:

2-(3-Phenylpiperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(4-Fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(3-Fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; $2\hbox{-}(3\hbox{-}(2\hbox{-}Fluorophenyl)piperazin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyridyl)-3$$H$-pyrimidin-4-one;$ $2\hbox{-}(3\hbox{-}(4\hbox{-}Chlorophenyl)piperazin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyridyl)-3H\hbox{-}pyrimidin-4\hbox{-}one;$ (S) - 2 - (3 - (4 - Chlorophenyl)piperazin - 1 - yl) - 3 - methyl - 6 - (4 - pyridyl) - 3H - pyrimidin - 4 - yl) - 3H - yl) - yl) - 3H - yl) one; $(R) \hbox{-} 2 \hbox{-} (3 \hbox{-} (4 \hbox{-} Chlorophenyl) piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3 H-pyrimidin-4-lylllower and the statement of the st$ one; 2-(3-(3-Chlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; $2\hbox{-}(3\hbox{-}(2\hbox{-}Chlorophenyl) piperazin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyridyl)-3$$H$-pyrimidin-4-one;$ $2\hbox{-}(3\hbox{-}(4\hbox{-Bromophenyl}) piperazin-1\hbox{-}yl)-3\hbox{-methyl-}6\hbox{-}(4\hbox{-pyridyl})-3H\hbox{-pyrimidin-}4\hbox{-one};$ $2\hbox{-}(3\hbox{-}(3\hbox{-}Bromophenyl) piperazin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyridyl)-3$$H$-pyrimidin-4-one;$ $2\hbox{-}(3\hbox{-}(2\hbox{-Bromophenyl}) piperazin-1\hbox{-}yl)-3\hbox{-methyl-}6\hbox{-}(4\hbox{-pyridyl})-3H\hbox{-pyrimidin-}4\hbox{-one};$ $2\hbox{-}(3\hbox{-}(4\hbox{-}Methylphenyl) piperazin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyridyl)-3$$H$-pyrimidin-4-one;$ $2\hbox{-}(3\hbox{-}(3\hbox{-}Methylphenyl) piperazin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyridyl)-3 \hbox{H-pyrimidin-4-one};$ $2\hbox{-}(3\hbox{-}(2\hbox{-}Methylphenyl)piperazin-1-yl)-3-methyl-6\hbox{-}(4\hbox{-}pyridyl)-3$H-pyrimidin-4-one;$ $2\hbox{-}(3\hbox{-}(4\hbox{-}Cyanophenyl)piperazin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyridyl)-3\emph{H-pyrimidin-4-one};$ $2\hbox{-}(3\hbox{-}(3\hbox{-}Cyanophenyl)piperazin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyridyl)-3H\hbox{-}pyrimidin-4\hbox{-}one;$ 2-(3-(2-Cyanophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;2-(3-(4-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; $2\hbox{-}(3\hbox{-}(3\hbox{-}Methoxyphenyl)piperazin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyridyl)-3H\hbox{-}pyrimidin-4\hbox{-}one;$ $2\hbox{-}(3\hbox{-}(2\hbox{-Methoxyphenyl}) piperazin-1\hbox{-}yl)-3\hbox{-methyl-}6\hbox{-}(4\hbox{-pyridyl})-3H\hbox{-pyrimidin-}4\hbox{-one};$ $2\hbox{-}(3\hbox{-}(2\hbox{-}{\bf E}tho{\tt xyphenyl}) {\tt piperazin-1-yl})\hbox{-}3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3$$H-pyrimidin-4-one;$ $2\hbox{-}(3\hbox{-}(5\hbox{-}Fluoro\hbox{-}2\hbox{-}methoxyphenyl) piperazin-1\hbox{-}yl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3H-10\hbox{-}yl)$

pyrimidin-4-one;

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2-(3-(4-Fluoro-3-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
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- 2-(3-(4-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- (S)-2-(3-(4-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- (R)-2-(3-(4-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(4-Chloro-2-methoxyphenyl) piperazin-1-yl) 3-methyl-6-(4-pyridyl) 3H-pyrimidin-4-one;
- 2-(3-(4-Fluoro-2-methylphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- $2\text{-}(3\text{-}(2\text{-Fluoro-6-methoxyphenyl}) piperazin-1\text{-yl})-3\text{-methyl-6-}(4\text{-pyridyl})-3H-\\ pyrimidin-4\text{-one};$
- 2-(3-(5-Bromo-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimid in-4-one;
- 2-(3-(2-Bromo-4-fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- 2-(3-(2-Chloro-6-fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- 2-(3-(2,4-Difluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- 2-(3-(2,6-Difluorophenyl) piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(2,6-Dichlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(2,4-Dimethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;

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2-(3-(3,4-Dimethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
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- 2-(3-(2,5-Dimethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- $2\hbox{-}(3\hbox{-}(2,6\hbox{-Dimethoxyphenyl}) piperazin-1\hbox{--yl})-3\hbox{--methyl-6-}(4\hbox{--pyridyl})-3H\hbox{--pyrimidin-4-one};$
- 2-(3-(2,4-Difluoro-6-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- 2-(3-(5-Cyano-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- 2-(3-(4-Cyano-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- 2-(3-(1-Naphthyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(2-Naphthyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(2,3-Dihydrobenzofuran-7-yl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- 2-(3-(Benzofuran-2-yl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- (S)-2-(3-(Benzofuran-2-yl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(4-(Pyrrolidin-1-yl-methyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(4-(Pyrrolidin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(2-methoxy-4-(pyrrolidin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(2-methoxy-5-(pyrrolidin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(4-(Phenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;

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2-(3-(4-(4-{\rm Fluorophenyl}){\rm phenyl}){\rm piperazin-1-yl})-3-{\rm methyl-6-}(4-{\rm pyridyl})-3H-\\ {\rm pyrimidin-4-one};
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- 2-(3-(4-(4-Methoxyphenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- 2-(3-(4-(2-Methoxyphenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- 2-(3-(4-(Morpholin-4-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- 2-(3-(4-(4-Methylpiperazin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(4-Phenylpiperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(4-Benzylpiperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(4-Benzoylpiperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(4-(1,2-Benzisothiazol-3-yl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- 2-(4-Methyl-3-phenylpiperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(4-Fluoro-2-methoxyphenyl)-4-methylpiperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- (S)-2-(3-(4-Fluoro-2-methoxyphenyl)-4-methylpiperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- (R)-2-(3-(4-Fluoro-2-methoxyphenyl)-4-methylpiperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- $2\hbox{-}(4\hbox{-}Acetyl\hbox{-}3\hbox{-}(4\hbox{-}fluoro\hbox{-}2\hbox{-}methoxyphenyl)piperazin\hbox{-}1\hbox{-}yl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3H\hbox{-}pyrimidin\hbox{-}4\hbox{-}one;}$
- 2-(4-Benzyl-3-(4-fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(4-Benzyl-3-(ethoxycarbonyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;

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one;
      pyrimidin-4-one;
      2\hbox{-}(3\hbox{-Phenylpiperidin-1-yl})\hbox{-}3\hbox{-methyl-6-}(4\hbox{-pyridyl})\hbox{-}3H\hbox{-pyrimidin-4-one};
     2\hbox{-}(3\hbox{-}(4\hbox{-}Fluorophenyl) piperidin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyridyl)-3H\hbox{-}pyrimidin-4\hbox{-}one;
     2\hbox{-}(3\hbox{-}(3\hbox{-}Fluorophenyl) \texttt{piperidin-1-yl})\hbox{-} 3\hbox{-}methyl\hbox{-} 6\hbox{-}(4\hbox{-}pyridyl)\hbox{-} 3H\hbox{-}pyrimidin-4\hbox{-}one;
     2\hbox{-}(3\hbox{-}(2\hbox{-}Fluorophenyl)piperidin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyridyl)-3$$H$-pyrimidin-4-one;
    2\hbox{-}(3\hbox{-}(4\hbox{-}Chlorophenyl) piperid in \hbox{-}1\hbox{-}yl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyrid yl)\hbox{-}3H\hbox{-}pyrimid in \hbox{-}4\hbox{-}one;
    2\hbox{-}(3\hbox{-}(4\hbox{-Bromophenyl}) piperid in \hbox{-}1\hbox{-}yl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyrid yl)\hbox{-}3H\hbox{-}pyrimid in \hbox{-}4\hbox{-}one;
    2\hbox{-}(3\hbox{-}(4\hbox{-Methoxyphenyl}) piperid in \hbox{-}1\hbox{-}yl)\hbox{-}3\hbox{-methyl}\hbox{-}6\hbox{-}(4\hbox{-pyridyl})\hbox{-}3H\hbox{-pyrimid in}\hbox{-}4\hbox{-}one;
    2\hbox{-}(3\hbox{-}(3\hbox{-}Methoxyphenyl) piperidin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyridyl)-3$$H$-pyrimidin-4-one;
    2\hbox{-}(3\hbox{-}(2\hbox{-}Methoxyphenyl) piperidin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyridyl)-3$$H$-pyrimidin-4-one;
   2\hbox{-}(3\hbox{-}(4\hbox{-}((\mathrm{Pyrrolidin-1-yl})\mathrm{methyl})\mathrm{piperidin-1-yl})\hbox{-}3\hbox{-}\mathrm{methyl-}6\hbox{-}(4\hbox{-}\mathrm{pyridyl})\hbox{-}3H\hbox{-}10)
    pyrimidin-4-one;
  (S) - 2 - (3 - (4 - (Pyrrolidin-1 - yl-methyl)phenyl)piperidin-1 - yl) - 3 - methyl - 6 - (4 - pyridyl) - (4 - (4 - yridyl) 
   3H-pyrimidin-4-one;
  (R) - 2 - (3 - (4 - (Pyrrolidin-1 - yl-methyl) phenyl) piperidin-1 - yl) - 3 - methyl - 6 - (4 - pyridyl) - (4 - (4 - yridyl) - (4 - yridyl
  3H-pyrimidin-4-one;
 2\hbox{-}(3\hbox{-Hydroxy-3-phenylpiperidin-1-yl)-3-methyl-6-(4-pyridyl)-3} H\hbox{-pyrimidin-4-one};
 \hbox{2-(3-Phenylpiperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3$$H$-pyrimidin-4-one;}
 2\hbox{-}(3\hbox{-}(4\hbox{-}Fluorophenyl) piperazin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyrimidyl)-3$$H$-pyrimidin-4-one;
2\hbox{-}(3\hbox{-}(3\hbox{-}Fluorophenyl) piperazin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyrimidyl)-3$$H$-pyrimidin-4-one;
2\hbox{-}(3\hbox{-}(2\hbox{-}Fluorophenyl)piperazin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyrimidyl)-3$$H$-pyrimidin-4-one;
2\hbox{-}(3\hbox{-}(4\hbox{-}Chlorophenyl)piperazin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyrimidyl)-3$$H$-pyrimidin-4-yl-2-(4-chlorophenyl)piperazin-1-yl-3-methyl-6-(4-pyrimidyl)-3$$H$-pyrimidin-4-yl-2-(4-pyrimidyl)-3$$H$-pyrimidin-4-yl-2-(4-pyrimidyl)-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-4$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$H$-pyrimidyl-3$$
one;
2\hbox{-}(3\hbox{-}(3\hbox{-}Chlorophenyl)piperazin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyrimidyl)-3$$H$-pyrimidin-4-yl)-3-methyl-6-(4\hbox{-}pyrimidyl)-3$$H$-pyrimidin-4-yl)-3-methyl-6-(4\hbox{-}pyrimidyl)-3$$H$-pyrimidin-4-yl)-3-methyl-6-(4\hbox{-}pyrimidyl)-3$$H$-pyrimidyl-3$$H$-pyrimidyl-4-yl)-3$$H$-pyrimidyl-4-yl]-3$$H$-pyrimidyl-4-yl]-3$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H$-pyrimidyl-4$$H
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one;

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2-(3-(2-Chlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
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- 2-(3-(4-Bromophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(3-(3-Bromophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(2-Bromophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(3-(4-Cyanophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(3-Cyanophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- $2\hbox{-}(3\hbox{-}(2\hbox{-}Cyanophenyl)piperazin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyrimidyl)-3$$H$-pyrimidin-4-one; \\$
- 2-(3-(4-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- $2\hbox{-}(3\hbox{-}(3\hbox{-}Methoxyphenyl)piperazin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyrimidyl)-3$$H$-pyrimidin-4-one;$
- 2-(3-(2-Methoxyphenyl) piperazin-1-yl) 3-methyl-6-(4-pyrimidyl) 3H-pyrimidin-4-one;
- 2-(3-(2-Ethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- $2\hbox{-}(3\hbox{-}(6\hbox{-}Fluoro\hbox{-}2\hbox{-}methoxyphenyl) piperazin-1-yl)\hbox{-}3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyrimidyl)\hbox{-}3H-pyrimidin-4-one;}$
- 2-(3-(5-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(3-(4-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;

(S) - 2 - (3 - (4 - Fluoro - 2 - methoxyphenyl) piperazin - 1 - yl) - 3 - methyl - 6 - (4 - pyrimidyl) - 3 H-pyrimidin - 4 - one;

- (R) 2 (3 (4 Fluoro 2 methoxyphenyl) piperazin 1 yl) 3 methyl 6 (4 pyrimidyl) 3H-pyrimidin 4 one;
- $2\text{-}(3\text{-}(4\text{-}\text{Chloro-}2\text{-}\text{methoxyphenyl}) \\ \text{piperazin-}1\text{-}\text{yl})\text{-}3\text{-}\text{methyl-}6\text{-}(4\text{-}\text{pyrimidyl})\text{-}3H \\ \text{pyrimidin-}4\text{-}\text{one};$
- $2\text{-}(3\text{-}(5\text{-Bromo-}2\text{-methoxyphenyl}) piperazin-1\text{-yl})-3\text{-methyl-}6\text{-}(4\text{-pyrimidyl})-3H-pyrimidin-}4\text{-one};$
- $2\hbox{-}(3\hbox{-}(2,6\hbox{-Dichlorophenyl}) piperazin-1\hbox{-}yl)-3\hbox{-methyl-}6\hbox{-}(4\hbox{-pyridyl})-3H\hbox{-pyrimidin-}4\hbox{-one};$
- $\hbox{2-(3-(2,4-Dimethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3$$H$-pyrimidin-4-one;}$
- $2\text{-}(3\text{-}(3,4\text{-Dimethoxyphenyl}) piperazin-1\text{-}yl)-3\text{-methyl-6-}(4\text{-pyrimidyl})-3H-\\ pyrimidin-4\text{-}one;$
- $2\hbox{-}(3\hbox{-}(2,5\hbox{-Dimethoxyphenyl}) \hbox{piperazin-1-yl})\hbox{-}3\hbox{-methyl-}6\hbox{-}(4\hbox{-pyrimidyl})\hbox{-}3H\hbox{-}pyrimidin-}4\hbox{-}one;$
- $2\text{-}(3\text{-}(2,6\text{-}Dimethoxyphenyl)piperazin-1-yl)-3\text{-}methyl-6\text{-}(4\text{-}pyrimidyl)-3} \\ H-pyrimidin-4\text{-}one;$
- 2-(3-(2,4-Difluoro-6-methoxyphenyl) piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- $2\hbox{-}(3\hbox{-}(1\hbox{-Naphthyl}) piperazin-1\hbox{-}yl)-3\hbox{-methyl-}6\hbox{-}(4\hbox{-pyrimidyl})-3H\hbox{-pyrimidin-}4\hbox{-one};$
- 2-(3-(2-Naphthyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- $2\hbox{-}(3\hbox{-}(2,3\hbox{-Dihydrobenzofuran-7-yl}) piperazin-1\hbox{--yl})-3\hbox{--methyl-6-}(4\hbox{--pyrimidyl})-3H-pyrimidin-4\hbox{--one};$
- 2-(3-(Benzofuran-2-yl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(3-(4-(Pyrrolidin-1-yl-methyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;

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 2\text{-}(3\text{-}(4\text{-}(Pyrrolidin-1\text{-}yl)phenyl)piperazin-1\text{-}yl)-3\text{-}methyl-6\text{-}(4\text{-}pyrimidyl)-3} \textit{H-}pyrimidin-4\text{-}one;
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- 2-(3-(2-methoxy-4-(pyrrolidin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(2-methoxy-5-(pyrrolidin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(4-(Phenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(3-(4-(4-Fluorophenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(3-(4-(4-Methoxyphenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(3-(4-(2-Methoxyphenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(3-(4-(Morpholin-4-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(4-(4-Methylpiperazin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(4-Fluoro-2-methoxyphenyl)-4-methylpiperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- (S)-2-(3-(4-Fluoro-2-methoxyphenyl)-4-methylpiperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- (R)-2-(3-(4-Fluoro-2-methoxyphenyl)-4-methylpiperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(4-Acetyl-3-(4-fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(4-Benzyl-3-(4-fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;

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2\text{-}(4\text{-}(4\text{-Fluorophenyl})\text{piperidin-1-yl})-3\text{-methyl-6-}(4\text{-pyrimidyl})-3H\text{-pyrimidin-4-one}; 2\text{-}(4\text{-Cyano-4-phenylpiperidin-1-yl})-3\text{-methyl-6-}(4\text{-pyrimidyl})-3H\text{-pyrimidin-4-one}; 2\text{-}(4\text{-}(6\text{-Fluorobenofuran-3-yl})\text{piperidin-1-yl})-3\text{-methyl-6-}(4\text{-pyrimidyl})-3H\text{-pyrimidin-4-one};
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- 2-(3-(Benzoisoxazol-3-yl)piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- (S)-2-(3-(Benzoisoxazol-3-yl)piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- (R)-2-(3-(Benzoisoxazol-3-yl)piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(6-Fluorobenzoisoxazol-3-yl) piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(4-(6-Fluorobenzoisoxazol-3-yl) piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(4-(5-Methylbenzofuran-3-yl)piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one; and
- $2\hbox{-}(4\hbox{-}(6\hbox{-}Fluorobenzothiophene-3-yl)piperidin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyrimidyl)-3$$H-pyrimidin-4\hbox{-}one.$

Salts of the aforementioned preferred compound, and solvates or hydrates of the aforementioned compounds and salts thereof are also preferred.

The 3-substituted-4-pyrimidone compounds represented by the aforementioned formula (I) can be prepared, for example, according to the method explained below.

(In the above scheme, definitions of Q, R, X and Y are the same as those already described.)

The 2-thiopyrimidone represented by the above formula (III) is prepared easily by a modification of the method described in EP 354,179. The reaction may be carried out in the presence of a base such as sodium hydroxide, potassium hydroxide, sodium methoxide, sodium ethoxide, potassium tert-butoxide, sodium carbonate, sodium hydrogencarbonate, potassium carbonate, triethylamine, diisopropylethylamine, and 1,8-diazabicyclo[5,4,0]undec-7-en for 1 to 100 hours at a suitable temperature ranging from 0 $^{\circ}$ C to 200 $^{\circ}$ C under nitrogen or argon atmosphere or under ordinary air to afford the desired compound (III). Examples of a solvent for the reactions include, for example, alcoholic solvent such as methanol, ethanol, 1-propanol, isopropanol, tert-butanol, ethylene glycol, propylene glycol; etheric solvents such as diethyl ether, tert-butyl methyl ether, tetrahydrofuran, isopropyl ether; hydrocarbonic solvents such as benzene, toluene, xylene; halogenated hydrocarbonic solvents such as dichloromethane, chloroform, dichloroethane; aprotic polar solvents such as formamide, N,N-dimethylformamide, N,N-dimethylacetamide, N-methylpyrrolidone, dimethyl sulfoxide, sulfolane, hexamethylphosphoric triamide, water and the like. Generally, a single solvent or a mixture of two or more solvents may be used so as to be suitable to a base used.

Then the 2-thiopyrimidone derivative (III) is transformed into the 2-chloropyrimidone (IV) by a chlorinating agent. The reaction time and temperature depend on the chlorinating agent used. Examples of a chlorinating agent for the reactions include, for example, thionyl chloride, thionyl chloride and

dimethylformamide, phosphorus oxychloride, phosphorus oxychloride and dimethylformamide, oxalyl chloride, phosphorous oxychloride and dimethylformamide, and phosphorus pentachloride.

The amine represented by the above formula (V) may be prepared by a modification of the method described in Japanese Patent Unexamined Publication [Kokai] No. 52-139085/1977 or according to well-known methods of one skilled in the art.

Then the chloride derivative (IV) is allowed to react with the amine (V) or salts thereof in the presence of a base such as sodium hydroxide, potassium hydroxide, sodium methoxide, sodium ethoxide, sodium carbonate, sodium hydrogencarbonate, potassium carbonate, triethylamine, diisopropylethylamine, and 1,8-diazabicyclo[5,4,0]undec-7-en for 0.1 to 100 hours at a suitable temperature ranging from 0 °C to 200 °C under nitrogen or argon atmosphere or under ordinary air to afford the desired compound (II).

Examples of a solvent for the reactions include, for example, alcoholic solvent such as methanol, ethanol, 1-propanol, isopropanol, tert-butanol, ethylene glycol, propylene glycol; etheric solvents such as diethyl ether, tert-butyl methyl ether, tetrahydrofuran, isopropyl ether; hydrocarbonic solvents such as benzene, toluene, xylene; halogenated hydrocarbonic solvents such as dichloromethane, chloroform, dichloroethane; aprotic polar solvents such as formamide, N,N-dimethylformamide, N,N-dimethylacetamide, N-methylpyrrolidone, dimethyl sulfoxide, sulfolane, hexamethylphosphoric triamide, water and the like. Generally, a single solvent or a mixture of two or more solvents may be used so as to be suitable to a base used.

The compounds of the present invention have inhibitory activity against TPK1, and they inhibit TPK1 activity in neurodegenerative diseases like Alzheimer disease, thereby suppress the neurotoxicity of A β and the formation of PHF and inhibit the nerve cell death. Accordingly, the compounds of the present invention

are useful as an active ingredient of a medicament which radically enables preventive and/or therapeutic treatment of Alzheimer disease. In addition, the compounds of the present invention are also useful as an active ingredient of a medicament for preventive and/or therapeutic treatment of ischemic cerebrovascular accidents, Down syndrome, cerebral bleeding due to solitary cerebral amyloid angiopathy, progressive supranuclear palsy, subacute sclerosing panencephalitis, postencephalitic parkinsonism, pugilistic encephalosis, Guam parkinsonism-dementia complex, Lewy body disease, Pick's disease, corticobasal degeneration frontotemporal dementia, vascular dementia, acute stroke and traumatic injuries, brain and spinal cord trauma, peripheral neuropathies, retinopathies and glaucoma, non-insulin dependent diabetes (such as diabetes type II), and obesity, manic depressive illness, schizophrenia, alopecia, cancers such as breast cancer, non-small cell lung carcinoma, thyroid cancer, T or B-cell leukemia and several virus-induced tumors.

As the active ingredient of the medicament of the present invention, a substance may be used which is selected from the group consisting of the compound represented by the aforementioned formula (I) and pharmacologically acceptable salts thereof, and solvates thereof and hydrates thereof. The substance, per se, may be administered as the medicament of the present invention, however, it is desirable to administer the medicament in a form of a pharmaceutical composition which comprises the aforementioned substance as an active ingredient and one or more of pharmaceutical additives. As the active ingredient of the medicament of the present invention, two or more of the aforementioned substance may be used in combination. The above pharmaceutical composition may be supplemented with an active ingredient of other medicament for the treatment of, for example, Alzheimer disease, vascular dementia, acute stroke and traumatic injuries, brain and spinal cord trauma, peripheral neuropathies, retinopathies and glaucoma, non-insulin dependent diabetes (such as diabetes type II), and obesity, manic depressive illness,

schizophrenia, alopecia, cancers such as breast cancer, non-small cell lung carcinoma, thyroid cancer, T or B-cell leukemia and several virus-induced tumors.

A type of the pharmaceutical composition is not particularly limited, and the composition may be provided as any formulation for oral or parenteral administration. For example, the pharmaceutical composition may be formulated, for example, in the form of pharmaceutical compositions for oral administration such as granules, fine granules, powders, hard capsules, soft capsules, syrups, emulsions, suspensions, solutions and the like, or in the form of pharmaceutical compositions for parenteral administrations such as injections for intravenous, intramuscular, or subcutaneous administration, drip infusions, transdermal preparations, transmucosal preparations, nasal drops, inhalants, suppositories and the like. Injections or drip infusions may be prepared as powdery preparations such as in the form of lyophilized preparations, and may be used by dissolving just before use in an appropriate aqueous medium such as physiological saline.

Sustained-release preparations such as those coated with a polymer may be directly administered intracerebrally.

Types of pharmaceutical additives used for the manufacture of the pharmaceutical composition, content rations of the pharmaceutical additives relative to the active ingredient, and methods for preparing the pharmaceutical composition may be appropriately chosen by those skilled in the art. Inorganic or organic substances, or solid or liquid substances may be used as pharmaceutical additives. Generally, the pharmaceutical additives may be incorporated in a ratio ranging from 1% by weight to 90% by weight based on the weight of an active ingredient.

Examples of excipients used for the preparation of solid pharmaceutical compositions include, for example, lactose, sucrose, starch, talc, cellulose, dextrin, kaolin, calcium carbonate and the like. For the preparation of liquid compositions for oral administration, a conventional inert diluent such as water or a vegetable oil

may be used. The liquid composition may contain, in addition to the inert diluent, auxiliaries such as moistening agents, suspension aids, sweeteners, aromatics, colorants, and preservatives. The liquid composition may be filled in capsules made of an absorbable material such as gelatin. Examples of solvents or suspension mediums used for the preparation of compositions for parenteral administration, e.g. injections, suppositories, include water, propylene glycol, polyethylene glycol, benzyl alcohol, ethyl oleate, lecithin and the like. Examples of base materials used for suppositories include, for example, cacao butter, emulsified cacao butter, lauric lipid, witepsol.

Dose and frequency of administration of the medicament of the present invention are not particularly limited, and they may be appropriately chosen depending on conditions such as a purpose of preventive and/or therapeutic treatment, a type of a disease, the body weight or age of a patient, severity of a disease and the like. Generally, a daily dose for oral administration to an adult may be 0.01 to 1,000 mg (the weight of an active ingredient), and the dose may be administered once a day or several times a day as divided portions, or once in several days. When the medicament is used as an injection, administrations may preferably be performed continuously or intermittently in a daily dose of 0.001 to 100 mg (the weight of an active ingredient) to an adult.

Examples

The present invention will be explained more specifically with reference to examples. However, the scope of the present invention is not limited to the following examples. The compound numbers in the examples correspond to those in the table above.

Reference Example 1: Synthesis of 2-mercapto-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one

A solution of ethyl 3-oxo-3-(4-pyridyl)propionate (29.0 g, 150 mmol), N-methyl thiourea (40.6 g, 450 mmol) and 1,8-diazabicyclo[5,4,0]-7-undecene (22.4 ml, 150 mmol) was refluxed for 4 hours and the solution of methanesulfonic acid (14.4 g, 150 mmol) in water (50 ml) was added after cooling by ice-water. The precipitate was washed with water, filtered and dried to give the title compound (23.7 g, 72%).

¹H-NMR (DMSO-d₆) δ : 3.58(s, 3H), 6.40(s, 1H), 7.72(dd, J=1.8, 4.5Hz, 2H), 8.73(dd, J=1.5, 4.8Hz, 2H), 12.92(brd, 1H).

Reference Example 2: Synthesis of 2-chloro-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one

Phosphorous oxychloride (26.11g, 170 mmol) was added to dimethylformamide(180 ml) and stirred 20 min. 2-Mercapto-3-methyl-6-(4-pyridyl)-pyrimidine-4-one (24.15 g, 110 mmol) was added to the solution and stirred 5 min and then stirred at 70°C for 2 hours. Ethyl acetate (630 ml) was added to the ice-cooled solution and precipitate was collected by filtration after stirring for 20 minutes. After drying, the precipitate was dissolved in water (400 ml) and pH was adjusted to 10 by using aqueous sodium hydroxide. The precipitate was washed with water, filtered and dried to give the title compound (18.82 g, 77%).

1H-NMR (CDCl₃) δ: 3.72(s, 3H), 6.90(s, 1H), 7.78(dd, J=1.7, 4.5Hz, 2H), 8.75(dd, J=1.6, 4.5Hz, 2H).

Reference Example 3: Synthesis of 2-mercapto-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one

A solution of ethyl 3-oxo-3-(4-pyrimidyl)propionate (34.1 g, 176 mmol), N-methyl thiourea (47.5 g, 527 mmol) and 1,8-diazabicyclo[5,4,0]-7-undecene (26.3 ml, 176 mmol) in ethanol (340 ml) was refluxed for 2 hours and the solution of methanesulfonic acid (16.9 g, 176 mmol) in water (70 ml) was added after cooling by

ice-water. The precipitate was washed with water, filtered and dried to give the title compound (30.2 g, 78%).

¹H-NMR (DMSO-d₆) δ : 3.56(s, 3H), 6.88(s, 1H), 8.24(dd, J=1.2, 5.4 Hz, 2H), 9.05 (dd, J=5.4 Hz, 1H), 11.94(s, 1H).

Reference Example 4: Synthesis of 2-chloro-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one

Phosphorous oxychloride (4.60 g, 30 mmol) was added to dimethyl-formamide(32 ml) and stirred for 20 min at 0°C. 2-Mercapto-3-methyl-6-(4-pyrimidyl)-3H-pyrimidine-4-one(4.40 g, 20 mmol) was added to the solution and stirred 5 min and then stirred at 70°C for 2 hours. The reaction mixture was poured into ice water, neutralized by solid potassium carbonate, and extracted with ethyl acetate. The organic layer was washed with brine, dried over sodium sulfate, and evaporated under reduced pressure. Purification of the residue by silica gel chromatography (ethyl acetate) gave the title compound (1.20 g, 27%). 1 H-NMR (CDCl₃) $\delta: 3.74(s, 3H), 7.56(s, 1H), 8.18(d, J=5.1 Hz, 1H), 8.92(d, J=5.1 Hz, 1H), 9.30(s, 1H).$

MS[M+H]+: 223.

Example 1: Synthesis of 2-(2-(4-fluoro-2-methoxyphenyl)piperazin-4-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one dihydrochloride (No. XA468)

A solution of 2-bromo-5-fluoroanisole (11.8 g, 57.6 mmol) in tetrahydrofuran (60 ml) was dropped into the magnesium (1.40 g, 57.6 mmol) in refluxed tetrahydrofuran (32 ml) containing small amount of 1,2-dibromoethane and refluxed for 15 min. After addition of tetrehydrofuran (50 ml), the solution was cooled to -78 °C and diethyl oxalate (7.41 g, 50.7 mmol) in diethyl ether (50 ml) was dropped into the solution. After stirring at same temperature for 30 min, the solution was warmed to -10°C and 1N aqueous hydrogen chloride (50 ml) and water

were added. Organic layer was extracted with diethyl ether, washed with brine and dried over magnesium sulfate. After removal of the solvent under reduced pressure, purification of the residue by silica gel column chromatography (eluent: hexane/ethyl acetate = 5/2) gave ethyl 2-(4-fluoro-2-methoxyphenyl)-2-oxoacetate (6.80g, 59%)

¹H-NMR (CDCl₃) δ : 1.40(3H, t, J=7.1 Hz),3.87(3H, s), 4.89(2H, q, J=7.1Hz), 6.68(1H, d, J=10.5 Hz), 6.77-6.81(1H, m), 7.91-7.95(1H, m).

Ethylenediamine (0.60 g, 10.0 mmol) was added to a solution of ethyl 2-(4-fluoro-2-methoxyphenyl)-2-oxoacetate (2.26 g, 10.0 mmol) in ethanol(30 ml) and refluxed 4 hr. After removal of the solvent under reduced pressure, residue was washed with ethanol-diethyl ether to give 5,6-dihydro-3-(4-fluoro-2-methoxyphenyl)pyrazinone (1.76 g, 79%).

¹H-NMR (CDCl₃) δ: 3.50-3.56 (2H, m), 3.81 (3H, s), 3.88-3.92 (2H, m), 6.65(1H, d, J=11.0 Hz), 6.70-6.76 (1H, m), 6.89(1H, bs), 7.36-7.40(1H, m).

5,6-Dihydro-3-(4-fluoro-2-methoxyphenyl)pyrazinone was added to the solution of lithium aluminium hydride (0.46 g, 12 mmol) in diethyl ether (25 ml) and refluxed for 6 hr. Water (0.48 ml), 15% sodium hydroxide solution (0.48 ml) and again water (1.21 ml) were added to the ice-cooled solution and the precipitate was filtered and washed with dichloromethane. Combined organic layer was evaporated to give 2-(4-fluoro-2-methoxyphenyl)piperazine (0.83 g, 99%).

¹H-NMR (CDCl₃) δ: 2.02(2H, s), 2.57-2.63 (1H, m), 2.80-2.89 (1H, m), 2.92-2.99 (2H, m), 3.06-3.12 (2H, m), 3.80(3H, s), 4.06 (1H, d, J=10.0 Hz), 6.56-6.65 (2H, m), 7.40 (1H, t, J=7.8 Hz).

2-Chloro-3-methyl-6-(4-pyridyl)-pyrimidin-4-one (222 mg, 1.0 mmol) was added to an ice-cooled solution of 2-(4-fluoro-2-methoxyphenyl)piperazine (210 mg, 1.0 mmol), triethylamine (0.15 ml, 1.1 mmol) in N,N-dimethylformamide (10 ml) and stirred at that temperature for 1 hr and then at room temperature for 2 hr. Next day, reaction was quenched by ice-water and the filtrate was washed with

water and dried to give 2-(2-(4-fluoro-2-methoxyphenyl)piperazin-4-yl)-3-methyl-6-(4-pyridyl)-pyrimidin-4-one (246 mg, 62%).

¹H-NMR (CDCl₃) δ : 2.89-2.96 (1H, m), 3.19-3.31 (3H, m), 3.59 (3H, s), 3.62-3.74 (2H, m), 3.85 (3H, s), 4.39-4.44 (1H, m), 6.63-6.71 (2H, m), 6.67 (1H, s), 7.51-7.55 (1H, m), 7.81 (2H, dd, J=1.7, 4.6 Hz), 8.71 (2H, dd, J=1.7, 4.6 Hz).

4N Hydrogen chloride in 1,4-dioxane (0.4 ml) was added to the solution of 2-(2-(4-fluoro-2-methoxyphenyl)piperazin-4-yl)-3-methyl-6-(4-pyridyl)-pyrimidin-4-one (217 mg, 0.6 mmol) in dichloromethane (5 ml) and stirred for 15 min. After addition of diethyl ether, filtration and wash with diethyl ether and dryness gave the title compound (260 mg, quant.).

Example 2: Synthesis of 2-(2-(4-methoxyphenyl)-piperazine-4-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one dihydrochloride (No. XA393)

Dimethylslufoxide (50 ml) solution of 4-methyoxyphenacylbromide (9.94 g, 43.4 mmol) and water (1.6 ml, 88.8 mmol) were stirred at 50°C for 2.5 hr. Water was added and the solution was extracted with ethyl acetate 3 times and washed with brine and then dried over sodium sulfate. Removal of the solvent gave 4-methoxyphenylglyoxal (8.30 g, quant.).

¹H-NMR (DMSO) δ: 3.84 (3H, s), 6.60-6.69 (1H, m), 7.04 (2H, d, J=8.8 Hz), 8.05 (2H, d, J=9.1 Hz).

Methanol (5 ml) solution of ethylenediamine (3.74 g, 62.29 mmol) was added to the ice-cooled solution of 4-methoxyphenylglyoxal (8.30 g, 45.5 mmol) in methanol (100 ml) and tetrahydrofuran (50 ml) and stirred for 10 min. After cooling to 0°C, sodium tetrahydroborate (6.14 g, 162.2 mmol) and additional methanol (50 ml) was added and stirred overnight. After removal of the solvent, aqueous sodium hydroxide was added and was extracted with dichloromethane three times and washed with brine and dried over sodium sulfate. After removal of the solvent, purification of the residue by silica gel column chromatography (eluent;

dichloromethane/ethanol/diethylamine = 20/2/1) gave 2-(4-methoxypheny)-piperazine (3.96 g, 45%).

¹H-NMR (CDCl₃) δ: 2.69(1H, dd, J=10.3, 11.9 Hz), 2.80-3.01(4H, m), 3.07-3.11 (1H, m), 3.68-3.73(1H, m), 3.79(3H, s), 6.84-6.88 (2H, m), 7.27-7.32 (2H, m).

A solution of triethylamine (697 mg, 6.9 mmol), 2-(4-methoxyphenyl)piperazine (430 mg, tetrahydrofuran (10 ml) was stirred at room temperature for 30
min and at 50°C for 3 hr. Solvent was removed under reduced pressure, and 1N
aqueous sodium hydroxide solution was added to the residue and extracted by
dichloromethane three times and washed with brine and dried over sodium sulfate.
After removal of the solvent under reduced pressure, the residue was purified by
silica gel column chromatography (eluent; dichloromethane/ethanol = 10/1) to give
2-(2-(4-methoxyphenyl)-piperazine-4-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one
(594 mg, 76%)

¹H-NMR (CDCl₃) δ: 3.02 (1H, dd, J=10.8, 12.7 Hz), 3.18-3.25 (3H, m), 3.55 (3H, s), 3.57-3.67 (2H, m), 3..82 (3H, s), 3.98(1H, dd, J=2.7, 10.8 Hz), 6.67 (1H, s), 6.92 (2H, d, J=8.7 Hz), 7.37 (2H, d, J=8.7 Hz), 7.80 (2H, d, J=6.0 Hz), 8.71 (2H, d, J=6.0 Hz).

4N Hydrogen chloride in ethyl acetate (5 ml) was added to the solution of 2-(2-(4-methoxyphenyl)-piperazine-4-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one (594 mg, 1.6 mmol) in dichloromethane (5 ml) and stirred for 1 hr. Wash with ethyl acetate after removal of the solvent and dryness gave the title compound (683 mg, 96%).

Example 3: Synthesis of 2-(2-(4-chlorophenyl)-piperazine-4-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one hydrochloride (No. XA371)

Mixture of methyl (4-chlorophenyl)acetate (5.10 g, 27.6 mmol) and N-bromosuccinimide (5.16 g, 29 mmol) in carbon tetrachloride was treated by Hg lamp. After filtration, solvent was removed under reduced pressure and the residue was dissolved in methanol. Ethylenediamine (2.03 ml, 30.4 mmol) and

triethylamine (2.06 ml, 14.8 mmol) and di-tert-butyldicarbonate (3.10 ml, 13.5 mmol) were added to the solution of 3-(4-chlorophenyl)piperazin-2-one (2.60 g, 12.3 mmol) in dichloromethane (100 ml) and stirred. The reaction mixture was washed with 1N aqueous hydrogen chloride, water, brine and then dried. After removal of the solvent under reduced pressure, residue was purified by silica gel column chromatography to give 4-(tert-butoxycarbonyl)-3-(4-chlorophenyl)-piperazin-2-one.

¹H-NMR (CDCl₃) δ: 1.44 (9H, s), 3.21-3.32 (2H, m), 3.48 (1H, m), 4.04 (1H, brs), 5.66 (1H, brs), 7.10 (1H, brs), 7.30-7.38 (4H, m).

Solution of 4-(tert-butoxycarbonyl)-3-(4-chlorophenyl)-piperazin-2-one (500 mg, 1.6 mmol) and acetic acid (929 μ l, 16 mmol) were added to a refluxed solution of sodium borohydride (608 mg, 16 mmol) in 1,4-dioxane (5 ml) and reflux was continued. The reaction was quenched by water and extracted with dichloromethane and washed with brine and dried. After removal of the solvent, residue was purified by silica gel column chromatography to give 4-(tert-butoxycarbonyl)-3-(4-chlorophenyl)piperazine (330 mg, 69%).

1H-NMR (CDCl₃) δ : 1.46(9H, s), 2.76-2.99(3H, m), 3.13(1H, dd, J=13.0 Hz, 4.3 Hz), 3.45-3.49(2H, m), 3.92(1H, m), 5.15(1H, s), 7.27-7.33(4H, m).

A solution of 4-(tert-butoxycarbonyl)-3-(4-chlorophenyl)piperazine (330 mg, 1.1 mmol), 2-chloro-3-methyl-6-(4-pyridyl)pyrimidin-4-one (246 mg, 1.1 mmol) and triethylamine (170 μ l, 1.22 mmol) in tetrahydrofuran were refluxed. Usual workup and purification by silica gel column chromatography gave 2-(1-(tert-butoxy-carbonyl)-2-(4-chlorophenyl)-piperazine-4-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one (500 mg, 93%).

¹H-NMR (CDCl₃) δ : 1.45(9H, s), 3.09(1H, m), 3,35(3H, s), 3.40-3.63(4H, m), 3.96-4.19(2H, m), 5.43(1H, s), 6.68(1H, s), 7.23(2H, d, J=8.3 Hz), 7.32(2H, d, J=8.3 Hz), 7.78(2H, d, J=5.9 Hz), 8.72(2H, d, J=5.9 Hz).

4N Hydrogen chloride in ethyl acetate was added to the solution of

2-(1-(tert-butoxycarbonyl)-2-(4-chlorophenyl)-piperazine-4-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one (500 mg, 1.0 mmol) in ethyl acetate and stirred. Filtration and successive dryness gave the title compound (373mg, 79%).

Example 4: Synthesis of 3-methyl-2-(3-(4-((1-pyrrolidinyl)methyl)phenyl)piperidine -1-yl)-6-(4-pyridyl)pyrimidin-4-one fumarate (No. XB43)

Tetrakis(triphenylphosphine)palladium (0.65 g, 0.56 mmol),
4-formylphenylboric acid (2.81 g, 18.7 mmol), 2M aqueous sodium carbonate (18.7 ml, 37.4 mmol) and ethanol were added to the nitrogen-saturated solution of
3-bromopyridine (2.66 g, 16.8 mmol) in toluene and refluxed under nitrogen for 8 hrs. Water was added to the solution and extracted with ethyl acetate, washed with water and brine and dried. Solvents were removed under reduced pressure and the residue was purified by silica gel column chromatography (eluent; hexane/ethyl acetate = 1/1.5) to give 4-(3-pyridyl)benzaldehyde (0.78 g, 25%).

Methyl iodide (0.8 ml, 12.9 mmol) was added to a solution of 4-(3-pyridyl)benzaldehyde (0.78 g, 4.3 mmol) in dichloromethane and stirred 2 days. Additional methyl iodide (0.8 ml, 12.9 mmol) was added and stirred for 3 hr. After removal of the solvent, methanol was added to the residue and ice-cooled. Sodium tetrahydroborate (6.4 g, 17.0 mmol) was added to the solution and stirred for 1.5 hr with warming to room temperature. Organic solvents were removed under reduced pressure after addition of water and extracted with ethyl acetate, washed with water and brine and dried over sodium sulfate. After removal of the solvent under reduced pressure, residue was purified by silica gel chromatography (eluent ethyl acetate to methanol) to give 3-(4-hydroxymethylphenyl)-1-methyl-1,2,5,6-tetrahydropyridine (0.63 g, 72%).

Triethylamine (1.29 ml, 9.2 mmol), acetic anhydride (0.35 ml, 3.7 mmol) were added to a solution of 4-(hydroxymethyl)phenyl-1-methyl-1,2,5,6-tetrahydropyridine (0.63 g, 3.1 mmol) in dichloromethane and stirred overnight.

Organic solvents were removed under reduced pressure after addition of water and extracted with ethyl acetate, washed with water and brine and dried over sodium sulfate. Removal of the solvent under reduced pressure gave 3-(4-acetozymethyl-phenyl)-1-methyl-1,2,5,6-tetrahydropyridine (0.67 g, 89%).

A solution of 3-(4-acetoxymethylphenyl)-1-methyl-1,2,5,6tetrahydropyridine (0.67 g, 2.7 mmol) and 1-chloroethyl chloroformate (0.36 ml, 3.3
mmol) in dichloroethane was refluxed for 2 hr. Organic solvents were removed
under reduced pressure after addition of water and extracted with ethyl acetate,
washed with water and brine and dried over sodium sulfate. After removal of the
solvent, methanol was added and refluxed for 1.5 hr. Tetrahydrofuran and water
were added to the residue after removal of the solvent under reduced pressure and
triethylamine (1.9 ml, 13.6 mmol) and di-tert-butyl dicarbonate (0.66 g, 3.0 mmol)
were added and stirred. Organic solvents were removed under reduced pressure
after addition of water and extracted with ethyl acetate, washed with water and
brine and dried over sodium sulfate. Removal of the solvent under reduced pressure
and the residue was purified by silica gel chromatography to give
3-(4-acetoxymethylphenyl)-1-(tert-butoxycarbonyl)-1,2,5,6-tetrahydropyridine
(0.71 g, 78%).

Palladium on charcoal was added to the solution of 3-(4-acetoxy-methylphenyl)-1-(tert-butoxycarbonyl)-1,2,5,6-tetrahydropyridine (0.71 g, 2.1 mmol) in ethyl acetate and stirred under hydrogen atmosphere. After filtration with celite and removal of the solvent under reduced pressure, methanol and 1N aqueous sodium hydroxide were added and stirred. Organic solvents were removed under reduced pressure after addition of water and extracted with ethyl acetate, washed with water and brine and dried over sodium sulfate. Removal of the solvent under reduced pressure and the residue was purified by silica gel chromatography (eluent; hexane/ethyl acetate = 3/1) to give 3-(4-hydroxymethylphenyl)-1-(tert-butoxycarbonyl)piperidine (0.39 g, 62%).

Triethylamine (0.47 g, 3.4 mmol) and methanesulfonyl chloride (0.12 ml, 1.6 mmol) were added to an ice-cooled solution of 3-(4-hydroxymethylphenyl)-1- (tert-butoxycarbonyl)piperidine (0.39 g, 1.34 mmol) in dichloromethane and stirred for 7.5 hr. Pyrrolidine (1.0 ml, 12 mmol) was added to the solution and stirred overnight. Organic solvents were removed under reduced pressure after addition of water and extracted with ethyl acetate, washed with water and brine and dried over sodium sulfate. Removal of the solvent under reduced pressure and the residue was purified by silica gel chromatography (eluent; ethyl acetate to ethyl acetate/methanol = 1/1, then methanol only) to give 3-(4-(1-pyrrolidinyl)methyl-phenyl)-1-(tert-butoxycarbonyl)piperidine (0.26 g, 56%).

4N Hydrogen chloride in ethyl acetate was added to 3-(4-(1-pyrrolidinyl)-methylphenyl)-1-(tert-butoxycarbonyl)piperidine (0.26 g, 0.75 mmol) and stirred overnight. After filtration and dryness, triethylamine (0.5 ml, 3.6 mmol), 2-chloro-3-methyl-6-(4-pyridyl)-pyrimidin-4-one (0.14 g, 0.63 mmol) and tetrahydrofuran were added and stirred at 70°C. Organic solvents were removed under reduced pressure after addition of water and extracted with ethyl acetate, washed with water and brine and dried over sodium sulfate. Removal of the solvent under reduced pressure and the residue was dissolved into ethyl acetate. A solution of fumaric acid (0.095 g, 0.82 mmol) in acetone was added and the resulting precipitate was filtered and dried to give the title compound (0.29 g, 76%).

Example 5: Synthesis of (R)-2-(2-(4-chlorophenyl)piperazin-4-yl)-3-methyl-6-(4-pyridyl)-pyrimidin-4- one (No. XA372)

To a solution of (S)-2-methyl-CBS-oxazaborolidine (27.6 mL, 1.0 M solution in toluene, 27.6 mmol) was added borane-tetrahydrofuran complex (166 ml, 1.0 M solution in tetrahydrofuran, 166 mmol) at -40 °C. To the resulting solution was added a solution of 4'-chlorophenacyl bromide (32.25 g, 138.1 mmol) in tetrahydrofuran (200 ml) through dropping funnel over 1 h at -40 °C. After stirring

for 3 hours below 0 °C, methanol (ca. 50 ml) was added dropwise. After stirring the resulting solution for additional 30 min at room temperature, solvent was removed under reduced pressure. The residue, dissolved in ethyl acetate, was treated with 1 N hydrochloric acid to form white precipitate, which was filtered off. The layers of the filtrate was separated, and the organic layer was washed with hydrochloric acid and brine successively, dried over anhydrous sodium sulfate, filtered, and concentrated under reduced pressure. The residue was used for the next reaction without further purification.

The residue was dissolved in ether (250 ml), and stirred with potassium hydroxide (15.5 g, 276 mmol) in water (250 ml) vigorously. After consumption of the starting material, the layers were separated. The organic layer was washed with brine, dried over anhydrous sodium sulfate, filtered, and concentrated under reduced pressure. The residue was used for the next reaction without further purification.

The residue was heated with benzylamine (37.7 ml, 345 mmol) at 80 °C for 4.5 h. After cooling at room temperature, the resulting white crystals was washed with ether/hexane and collected to afford (S)-2-benzylamino-1-(4-chlorophenyl)-ethanol (23.8 g, 65.8%). The excess benzylamine in the filtrate was distilled off at 120 °C under reduced pressure. From the residue, another (S)-2-benzylamino-1-(4-chlorophenyl)ethanol (2.41 g, 6.7%) was obtained.

¹H NMR (CDCl₃) ™: 2.68(1H, dd, J=12.3, 8.9Hz), 2.92(1H, dd, J=12.3, 3.7Hz), 3.80(1H, d, J=11.9Hz), 3.86(1H, d, J=11.9Hz), 4.68(1H, dd, J=8.9, 3.7Hz), 7.30(9H, m).

To a suspension of (S)-2-benzylamino-1-(4-chlorophenyl)ethanol (15.76 g, 60.21 mmol) and triethylamine (33.6 ml, 241 mmol) in dichloromethane (300 ml) was added a solution of thionyl chloride (4.83 ml, 66.2 mmol) in dichloromethane (20 ml) at -78 °C over 20 min. The resulting suspension was stirred at -78 °C for 20 min and at 0 °C for additional 20 min. The reaction mixture was partitioned

between ether and water, and the organic layer was washed with brine, dried over anhydrous sodium sulfate, filtered, and concentrated under reduced pressure. The residue was purified by silica gel column chromatography (eluent: 10-20% ethyl acetate-hexane) to afford (2RS,5S)-3-benzyl-5-(4-chlorophenyl)-1,2,3-oxathiazolidine 2-oxide (16.2 g 87.4%) as a pale yellow solid.

The resulting product was obtained as a mixture of two diaster eomers due to the S-oxide.

major isomer: ¹H NMR (CDCl₃) δ : 3.31(1H, dd, J=10.5, 9.9Hz), 3.55(1H, dd, J=9.0, 6.3Hz), 3.88(1H, d, J=13.2Hz), 4.37(1H, d, J=13.2Hz), 5.49(1H, dd, J=10.5, 6.3Hz), 7.22-7.43(9H, m).

minor isomer: ¹H NMR (CDCl₃) δ : 3.21(1H, dd, J=13.5, 4.5Hz), 3.77(1H, dd, J=13.5, 11.4Hz), 4.05(1H, d, J=13.5Hz), 4.38(1H, d, J=13.5Hz), 5.99(1H, dd, J=11.4, 4.5Hz), 7.22-7.43(9H, m).

A solution of (2RS,5S)-3-benzyl-5-(4-chlorophenyl)-1,2,3-oxathiazolidine 2-oxide (16.2 g, 52.6 mmol) and sodium azide (17.11 g, 263.2 mmol) in N,N-dimethylformamide (100 ml) was heated at 70 °C for 24 hours. The reaction mixture was partitioned between ether and water, and the organic layer was washed with water and brine successively, dried over anhydrous sodium sulfate, and concentrated under reduced pressure. The residue was purified by silica gel column chromatography (eluent: 10-20% ethyl acetate-hexane) to afford (R)-N-benzyl-2-azido-2-(4-chlorophenyl)ethylamine (12.7 g, 83.8%) as a yellow oil. 1 H NMR (CDCl₃) δ : 2.81(1H, dd, J=12.5, 5.1Hz), 2.89(1H, dd, J=12.5, 8.5Hz), 3 3.82(2H, s),4.64(1H, dd, J=8.5, 5.1Hz),7.23-7.36(9H, m).

A solution of (R)-N-benzyl-2-azido-2-(4-chlorophenyl)ethylamine (12.7 g, 44.1 mmol) in tetrahydrofuran (176 mL) was treated with triphenylphosphine (13.9 g, 52.9 mmol) at room temperature. After addition of water (20 ml), the reaction mixture was heated at 60 °C for 1 h. The reaction mixture was condensed, and partitioned between ether and 1 N hydrochloric acid. The aqueous layer was

treated with 1 N aqueous sodium hydroxide solution until the solution became basic. The resulting solution was extracted with dichlromethane thoroughly. The combined organic layer was washed with water, dried over anhydrous sodium sulfate, filtered, and concentrated under reduced pressure. The residue was used for the next reaction without further purification.

The residue was heated with diethyl oxalate (18 ml, 132 mmol) at 120 °C for 1.5 h. The resulting white precipitate was washed with ether and collected to afford (R)-1-benzyl-5-(4-chlorophenyl)-2,3-dioxopiperazine (11.4 g, 82.2%). $^{1}\text{H NMR (CDCl}_{3}) \quad \delta: 3.46(1\text{H}, \text{dd}, \text{J=}12.9, 8.1\text{Hz}), 3.60(1\text{H}, \text{dd}, \text{J=}12.9, 3.8\text{Hz}), \\ 4.48(1\text{H}, \text{d}, \text{J=}14.7\text{Hz}), 4.79(1\text{H}, \text{d}, \text{J=}14.7\text{Hz}), 4.80(1\text{H}, \text{dd}, \text{J=}8.9, 3.8\text{Hz}), \\ 6.83(1\text{H}, \text{s}), 7.13(4\text{H}, \text{m}), 7.27(5\text{H}, \text{m}).$

To a suspension of (R)-1-benzyl-5-(4-chlorophenyl)-2,3-dioxopiperazine (11.4 g, 36.3 mmol) in tetrahydrofuran (300 ml) was added borane-tetrahydrofuran complex (181 mL, 1.0 M solution in tetrahydrofuran, 181 mmol) at room temperature. After stirring for 24 hours, the reaction mixture was quenched with methanol (50 ml) at 0 °C, and concentrated under reduced pressure. The residue was treated with 10% aqueous sodium hydroxide solution (300 ml) and heated at 100 °C for 2 hours. After cooling at room temperature, the mixture was extracted with dichloromethane thoroughly. The combined organic layer was dried over anhydrous sodium sulfated, filtered, and concentrated under reduced pressure. The residue was used for the next reaction without further purification.

To a solution of the residue and triethylamine (7.58 ml, 54.4 mmol) in dichloromethane (150 ml) was added di-tert-butyl dicarbonate (9.49 g, 43.5 mmol) at room temperature. After stirring for 45 min, the resulting mixture was partitioned between dichloromethane and water, dried over anhydrous sodium sulfate, filtered, and concentrated under reduced pressure. The residue was purified by silica gel column chromatography (eluent: 10-20% ethyl acetate-hexane) to afford (R)-1-benzyl-4-(tert-butoxycarbonyl)-3-(4-chlorophenyl)piperazine (11.6 g,

82.8%) as an oil.

¹H NMR (CDCl₃) δ : 1.43(9H, s), 2.16(1H, dt, J=4.4, 11.7Hz), 2.40(1H, dd, J=4.4, 11.7Hz), 2.78(1H, dd, J=4.4, 11.7Hz), 2.98(1H, dt, J=4.4, 11.7Hz), 3.20(1H, d, J=12.8Hz), 3.42(1H, d, J=12.9Hz), 3.57(1H, d, J=12.9Hz), 3.89(1H, d, J=12.8Hz), 5.17(1H, s), 7.24-7.36(9H, m).

To a solution of (R)-1-benzyl-4-(tert-butoxycarbonyl)-3-(4-chlorophenyl)piperazine (11.6 g, 30.1 mmol) in 1,2-dichloroethane (80 ml) was added 1-chloroethyl chloroformate (4.91 ml, 45.1 mmol) at room temperature. Upon disappearance of the starting material, the reaction mixture was concentrated under reduced pressure. The residue was then dissolved in methanol (100 ml) and refluxed for 30 min. The resulting white precipitate was filtered and washed with methanol to afford (R)-2-(4-chlorophenyl)piperazine dihydrochloride, which was liberated with aqueous sodium hydroxide solution, and extracted with dichloromethane to afford (R)-2-(4-chlorophenyl)piperazine (3.04 g, 51.4%) as white solid.

 1H NMR (CDCl3) δ :2.65(1H, dd, J=12.0, 10.5Hz), 2.82-3.04(4H, m), 3.09(1H, d, J=12.6Hz), 3.73(1H, dd, J=10.1, 2.7Hz), 7.29(4H, m)

The filtrate was concentrated under reduced pressure and partitioned between ether and 1 N hydrochloric acid. The aqueous layer was neutralized with 1 N aqueous sodium hydroxide solution, and extracted with dichloromethane thoroughly. The combined organic extracts were dried over anhydrous sodium sulfate, filtered, and concentrated under reduced pressure. The residue was purified after Boc-protection (Boc₂O, Et₃N, CH₂Cl₂) to furnish (R)-1,4-di(tert-butoxycarbonyl)-2-(4-chlorophenyl)piperazine (2.70 g, 22.6%) as pale yellow solid.

¹H NMR (CDCl₃) δ : 1.43(9H, s), 1.46(9H, s), 2.96(2H, m), 3.32(1H, dd, J=13.8, 4.2Hz), 3.74(1H, m), 3.94(1H, d, J=11.4Hz), 4.40(1H, d, J=13.2Hz), 5.23(1H, s), 7.25(2H, m)

To a suspension of (R)-2-(4-chlorophenyl) piperazine dihydrochloride (1.09 g, 4.05 mmol) in tetrahydrofuran (24 ml) was added triethylamine (2.82 ml, 20.3 mmol). After stirring for 15 min at room temperature, 2-chloro-3-methyl-6-(4pyridyl)-3H-pyrimidin-4-one (748 mg, 3.38 mmol) was added portionwise. Upon disappearance of the chloropyrimidone, the reaction mixture was condensed under reduced pressure. The residue was partitioned between saturated aqueous sodium bicarbonate solution and dichloromethane. The organic layer was dried over anhydrous sodium sulfate, filtered, and concentrated under reduced pressure to give pale yellow solid, which was recrystallized from ethanol to afford (R)-2-(2-(4-chlorophenyl)piperazin-4-yl)-3-methyl-6-(4-pyridyl)-pyrimidin-4-one (998 mg, 77.4%) as white crystals. The enantiomer excess was determined by HPLC (>99% ee). The crystals were converted into its dihydrochloride salt. ¹H NMR (DMSO-d₆) δ : 3.40(3H, m), 3.46(3H, s), 3.62(1H, dd, J=12.0, 13.2Hz), ${\tt J=8.6Hz),\ 7.83(2H,\ d,\ J=8.6Hz),\ 8.57(2H,\ d,\ J=6.6Hz),\ 9.01(2H,\ d,\ J=6.6Hz),}$ 10.20(1H, d, J=7.8Hz), 10.76(1H, br s) MS: 382(M+H)

 $[\alpha]_{D^{24}} = +62.2 \circ (c \ 1.00, \ H_2O)$

Example 6: Synthesis of (S)-2-(2-(4-chlorophenyl)piperazin-4-yl)-3-methyl-6-(4pyridyl)-pyrimidin-4-one (No. XA373)

(S)-isomer was prepared same as above by using (R)-2-methyl-CBSoxazaborolidine instead of (S)-2-methyl-CBS-oxazaborolidine. ¹H NMR (DMSO-d₆) δ : 3.40 (3H, m), 3.45 (3H, s), 3.53-3.96 (3H, m), 4.68 (1H, t, J = 13.5Hz), 7.10 (1H, s), 7.60 (2H, d, J=8.3Hz), 7.76 (2H, d, J=8.3Hz), 8.38 (1H, br s), $8.91 \ (1H, d, J=4.8Hz), 9.88 \ (1H, br\ s), 10.31 \ (1H, br\ s)$

MS: 382(M+H)

 $[\alpha]_{D^{24}} = -63.3 \circ (c \ 1.00, \ H_2O)$

Example 7: Synthesis of 2-(2-(4-fluoro-2-methoxyphenyl)piperazin-4-yl)-3-methyl-6-(4-pyrimidyl)-pyrimidin-4-one (No. YA0366)

A solution of 2-bromo-5-fluoroanisole (11.8 g, 57.6 mmol) in tetrahydrofuran (60 ml) was dropped into the magnesium (1.40 g, 57.6 mmol) in refluxed tetrahydrofuran (32 ml) containing small amount of 1,2-dibromoethane and refluxed for 15 min. After addition of tetrahydrofuran (50 ml), the solution was cooled to -78 °C and diethyl oxalate (7.41 g, 50.7 mmol) in diethyl ether (50 ml) was dropped into the solution. After stirring at the same temperature for 30 min, the solution was warmed to -10°C and 1N aqueous hydrogen chloride (50 ml) and water were added. Organic layer was extracted with diethyl ether, washed with brine and dried over magnesium sulfate. After removal of the solvent under reduced pressure, purification of the residue by silica gel column chromatography (eluent: hexane/ethyl acetate = 5/2) gave ethyl 2-(4-fluoro-2-methoxyphenyl)-2-oxoacetate (6.80g, 59%)

¹H-NMR (CDCl₃) δ : 1.40(3H, t, J=7.1 Hz),3.87(3H, s), 4.89(2H, q, J=7.1Hz), 6.68(1H, d, J=10.5 Hz), 6.77-6.81(1H, m), 7.91-7.95(1H, m).

Ethylenediamine (0.60 g, 10.0 mmol) was added to a solution of ethyl 2-(4-fluoro-2-methoxyphenyl)-2-oxoacetate (2.26 g, 10.0 mmol) in ethanol(30 ml) and refluxed 4 hr. After removal of the solvent under reduced pressure, residue was washed with ethanol-diethyl ether to give 5,6-dihydro-3-(4-fluoro-2-methoxyphenyl)pyrazinone (1.76 g, 79%).

¹H-NMR (CDCl₃) δ: 3.50-3.56 (2H, m), 3.81 (3H, s), 3.88-3.92 (2H, m), 6.65(1H, d, J=11.0 Hz), 6.70-6.76 (1H, m), 6.89(1H, bs), 7.36-7.40(1H, m).

5,6-Dihydro-3-(4-fluoro-2-methoxyphenyl)pyrazinone was added to the solution of lithium aluminium hydride (0.46 g, 12 mmol) in diethyl ether (25 ml) and refluxed for 6 hr: Water (0.48 ml), 15% sodium hydroxide solution (0.48 ml) and again water (1.21 ml) were added to the ice-cooled solution and the precipitate was

filtered and washed with dichloromethane. Combined organic layer was evaporated to give 2-(4-fluoro-2-methoxyphenyl)piperazine (0.83 g, 99%).

 $^{1}\text{H-NMR (CDCl}_{3}) \ \delta: 2.02(2\text{H, s}), 2.57\text{-}2.63 \ (1\text{H, m}), 2.80\text{-}2.89 \ (1\text{H, m}), 2.92\text{-}2.99 \ (2\text{H, m}), \\ 3.06\text{-}3.12 \ (2\text{H, m}), 3.80(3\text{H, s}), 4.06 \ (1\text{H, d}, J=10.0 \ \text{Hz}), 6.56\text{-}6.65 \ (2\text{H, m}), \\ 7.40 \ (1\text{H, t}, J=7.8 \ \text{Hz}).$

2-Chloro-3-methyl-6-(4-pyrimidyl)-pyrimidin-4-one (223 mg, 1.0 mmol) was added to an ice-cooled solution of 2-(4-fluoro-2-methoxyphenyl)piperazine (210 mg, 1.0 mmol), triethylamine (0.15 ml, 1.1 mmol) in N,N-dimethylformamide (10 ml) and stirred at that temperature for 0.5 hr and then at room temperature for 3 hours. Reaction was quenched by ice-water and the filtrate was washed with water and dried to give 2-(2-(4-fluoro-2-methoxyphenyl)piperazin-4-yl)-3-methyl-6-(4-pyrimidyl)-pyrimidin-4-one (262 mg, 66%).

¹H-NMR (CDCl₃) δ: 2.89-2.98 (1H, m), 3.22-3.31 (3H, m), 3.60 (3H, s), 3.62-3.71 (2H, m), 3.86 (3H, s), 4.39-4.44 (1H, m), 6.43-6.73 (2H, m), 7.33 (1H, s), 7.52-7.56 (1H, m), 8.19 (1H, d, J=5.1 Hz), 8.87 (1H, d, J=5.2 Hz), 9.28 (1H, d, J=1.2 Hz).

4N Hydrogen chloride in 1,4-dioxane (0.2 ml) was added to the solution of 2-(2-(4-fluoro-2-methoxyphenyl)piperazin-4-yl)-3-methyl-6-(4-pyrimidyl)-pyrimidi n-4-one (238 mg, 0.6 mmol) in dichloromethane (5 ml) and stirred for 15 min. Wash with methanol and ethyl acetate after removal of the solvent and dryness gave the title compound (223 mg, 86%).

Example 8: Synthesis of 2-(2-(4-chlorophenyl)-piperazine-4-yl)-3-methyl-6-(4-pyrimidyl)pyrimidin-4-one (No. YA0269)

Dimethyl sulfoxide (60 ml) solution of 4-chlorophenacylbromide (11.11 g, 65.9 mmol) and water (1.7 ml) were stirred. The solution was extracted with ethyl acetate 3 times and washed with water twice and brine and then dried over sodium sulfate. After removal of the solvent, the residue was washed with hexane-ethyl acetate and dried to give 4-chlorophenylglyoxal (4.43 g, 50%).

¹H-NMR (CDCl₃) δ : 4.02-4.16(2H, m), 5.90-5.95(1H, m), 7.45-7.53(2H, m), 8.05-8.11(2H, m).

A methanol (10 ml) solution of ethylenediamine (1.90 g, 31.6 mmol) was added to the ice-cooled solution of 4-chlorophenylglyoxal (4.43 g, 26.3 mmol) in methanol (100 ml) and tetrahydrofuran (30 ml) and stirred for 10 min. After addition of sodium tetrahydroborate (3.26 g, 86.3 mmol), additional methanol (50 ml) was added and stirred overnight. After removal of the solvent, diluted hydrochloric acid was added and extracted with ether twice. After addition of sodium hydroxide, basic aqueous layer was extracted with dichloromethane three times and washed with brine and dried over sodium sulfate. After removal of the solvent by filtration, purification of the residue by silica gel column chromatography (eluent; dichloromethane/ethanol = 10/1 to dichloromethane/ethanol/diethylamine = 20/2/1) to give 2-(4-chlorophenyl)-piperazine (0.43 g, 9%) 1 H-NMR (CDCl₃) δ : 2.67(1H, dd, J=10.5, 12.0 Hz), 2.87-3.03(4H, m), 3.07-3.13(1H, m), 3.77(1H, dd, J=2.7, 10.2 Hz), 7.27-7.36(4H, m).

Triethylamine (528 mg, 5.2 mmol) was added to a solution of 4-(chlorophenyl)piperazine (216 mg, 1.1 mmol) and 2-chloro-3-methyl-6-(4-pyrimidyl)pyrimidin-4-one and stirred at 50℃ for 2 hr. Solvent was removed under reduced pressure, and 1N aqueous sodium hydroxide solution was added to the residue and extracted by dichloromethane. After washing with brine and dryness by sodium sulfate, solvent was removed under reduced pressure, and the residue was purified using ISOLUTE(registered trade mark) SI (International Sorvent Technology, UK)(eluent; dichloromethane/ethanol = 10/1) to give the title compound (396 mg, 95 %).

Example 9: Synthesis of 2-(2-(4-chlorophenyl)-6,6-dimethyl-piperazin-4-yl)-3-methyl-6-pyridin-4-yl-3*H*-pyrimidin-4-one dihydrochloride (No. XA1986)

A solution of 4'-chloro-2-bromoacetophenone (25.0 g, 107 mmol), water (1.92 mL, 107 mmol) and 47% hydrobromic acid (0.20 mL) in dimethylsulfoxide (160 mL) was stirred at 80°C for 5 h. After the reaction mixture was poured into water, the precipitate was filtered, washed with diethylether and dried, affording 4'-chloro-2,2-dihydroxyacetophenone (14.0 g, 70%). ¹H NMR (300MHz, CDCl₃), δ 5.92(1H, s), 7.45-7.52(2H, m), 8.05 –8.20(2H, m).

2,2-dimethly-ethylenediamine (2.10 mL, 20.0 mmol) was added to a solution of 4'-chloro-2,2-dihydroxyacetophenone (3.70 g, 20.0 mmol) in methanol (120 mL) and tetrahydrofuran (30 mL) at room temperature. After 2 h, sodium borohydride (1.50 g, 40.0 mmol) was added to the reaction mixture at 0 $^{\circ}$ C. The reaction mixture was stirred overnight, then quenched with 1N hydrochloric acid and evaporated in vacuo. The acidic solution was extracted with ethyl acetate, then basified to pH 11 using 15% aqueous sodium hydroxide, and extracted with dichloromethane. The extract was dried over sodium sulfate and concentrated in vacuo. Di-t-butyldicarbonate (6.40 mL, 27.9 mmol) was added to the solution of the residue in 1N aqueous sodium hydroxide (40 mL) and tetrahydrofuran (60 mL). The resulting suspension was heated at 40 $^{\circ}\mathrm{C}$ for 8 h, then diluted with ethyl acetate and water. The organic layer was extracted with additional ethyl acetate, dried and concentrated in vacuo. The crude product was purified by flash column ${\it chromatography, affording 2-(4-chlorophenyl)-4-} t-but oxycarbonyl-6, 6-dimethyl-6, but oxycarbonyl-6, 6-dimethyl-6, affording 2-(4-chlorophenyl)-4-t-but oxycarbonyl-6, 6-dimethyl-6, affording 2-(4-chlorophenyl)-4-t-but oxycarbonyl-6, affording 2-(4-chlorophenyl-6, affording 2-(4-chlorophenyl-6$ piperazine (1.69 g, 28%, 2 steps). 1 H NMR (300MHz, CDCl₃), δ 1.15(3H, s), 1.21(3H, s), 2.47-2.70(2H, m), 3.72-4.16(3H, m), 7.26-7.37(4H, m).

4 M Hydrogen chloride in ethyl acetate (5.0 mL, 20.0 mmol) was added to a solution of 2-(4-chlorophenyl)-4-t-butoxycarbonyl-6,6-dimethyl-piperazine (1.69 g, 5.2 mmol). After 12 h, removing the solvent, filtrating and washing the precipitate with ethyl acetate gave 2-(4-chlorophenyl)-6,6-dimethyl-piperazine dihydrochloride

 $(1.43~g,\,95\%).~^{1}H~NMR~(300MHz,\,DMSO-d_{6}),\,\delta~1.40~(3H,\,s),\,1.58(3H,\,s),\,3.24-3.99(4H,\,s),\,4.73(1H,\,m),\,7.69(2H,\,d,\,J=8.4~Hz),\,7.79(2H,\,m),\,9.99-10.12(2H,\,m).$

A solution of 2-(4-chlorophenyl)-6,6-dimethyl-piperazine hydrochloride (155 mg, 0.52 mmol), 2-chloro-3-methyl-6-(4-pyridyl)-pyrimidine-4-one (111 mg, 0.50 mmol) and triethylamine (0.42 mL, 2.50 mmol) in tetrahydrofuran (5 mL) was stirred at room temperature for 6 h. The whole was evaporated in vacuo and the residue was extracted with dichloromethane. The organic layer was washed with water, dried and concentrated in vacuo. The residue was dissolved in methanol (5mL) and treated with 4M hydrogen chloride in ethyl acetate (0.50 mL, 2.0 mmol) for 20 min. After removing the solvent, filtrating and washing the precipitate with ethanol gave 2-(2-(4-chlorophenyl)-6,6-dimethyl-piperazin-4-yl)-3-methyl-6-pyridin-4-yl-3H-pyrimidin-4-one dihydrochloride (235 mg, 97%).

Example 10: Synthesis of 2-(2S-(4-bromophenyl)-piperazin-1-yl)-3-methyl-6-pyridin-4-yl-3H-pyrimidin-4-one (No. XA2051)

Benzyl chloroformate (2.40 mL, 15.0 mmol) was added to a solution of 2S-(4-bromophenyl)-piperazine dihydrochloride in 1N aqueous sodium hydroxide (30 mL) and dichloromethane (60 mL). The resulting suspension was stirred at room temperature for 1.5 h. After partitioned between ethyl acetate, the organic layer was extracted with additional ethyl acetate, dried and concentrated in vacuo. The precipitate was washed with ether, affording 2S-(4-bromophenyl)-4-benzyloxycarbonyl-piperazine (2.92 g, 57%). ¹H NMR (300MHz, CDCl₃), δ 2.87-3.01(2H, m), 3.47(2H, m), 3.93-3.97(1H, m), 4.20(2H, m), 5.16(2H, s), 7.36(5H, m), 7.42-7.61(4H, m).

A solution of 2S-(4-bromophenyl)-4-benzyloxycarbonyl-piperazine (788 mg, 2.10 mmol), 2-chloro-3-methyl-6-(4-pyridyl)-pyrimidine-4-one (444 mg, 2.00 mmol) and diisopropylethylamine (0.70 mL, 4.00 mmol) in dimethylformamide (20 mL) was stirred at 80°C for 3 h. The reaction mixture was poured into water and the

whole was extracted with ethyl acetate. The organic layer was washed with brine, dried and concentrated in vacuo. Chromatographic purification of the residue provided 2-(2S-(4-bromophenyl)-4-benzyloxycarbonyl-piperazin-1-yl)}-3-methyl-6-pyridin-4-yl-3H-pyrimidin-4-one (601 mg, 54%). ¹H NMR (300MHz, CDCl₃), δ 3.05(1H, m), 3.30-3.48(3H, m), 3.64(3H, s), 4.08-4.22(2H, m), 4.68(1H, m), 5.15(1H, d, J= 12.3 Hz), 5.21(1H, d, J= 12.6 Hz), 6.63(1H, s), 7.21(2H, d, J= 8.4 Hz), 7.28-7.39(7H, m), 7.59(2H, d, J=6.3 Hz), 8.68(2H, d, J=6.3 Hz).

Potassium hydroxide (168 mg, 3.0 mmol) was added to a solution of 2-{2S-(4-bromophenyl)-4-benzyloxycarbonyl-piperazin-1-yl}-3-methyl-6-pyridin-4-y 1-3H-pyrimidin-4-one in ethanol (2.0 mL). After stirring for 8 h at room temperature, purifying by preparative HPLC gave 2-(2S-(4-bromophenyl)-piperazin-1-yl)-3-methyl-6-pyridin-4-yl-3H-pyrimidin-4-one (40 mg, 26%).

Example 11: Synthesis of (S)-3-methyl-6-(4-pyridyl)-2-(3-(4-(3-(pyrrolidin-1-yl) pyrrolidin-1-yl)phenyl)piperazin-1-yl)pyrimidin-4-one (No. XA2032)

A suspension of (S)-2-(4-bromophenyl)-1,4-di(t-butoxycarbonyl) piperazine (1.33 g, 3.00 mmol), (R)-3-pyrrolidinol (520 mg, 4.20 mmol), palladium acetate (27 mg, 0.12 mmol), 2-(di-t-butylphosphino)biphenyl (72 mg, 0.24 mmol), and sodium t-butoxide (808 mg, 8.41 mmol) in tert-butanol (20 mL) was heated at 90 °C for 3.5 h. After dilution with ethyl acetate, the resulting mixture was passed through a Celite column. The filtrate was concentrated in vacuo, and the residue was purified by silica gel column chromatography eluting 10-50% ethyl acetate - hexane to afford (S)-1,4-di-(t-butoxycarbonyl)-2-(4-((R)-3-hydroxypyrrolidino) phenyl)piperazine (733 mg, 54.5%) as a yellow foam.

To a solution of (S)-1,4-di(t-butoxycarbonyl)-2-(4-((R)-3-hydroxy pyrrolidino) phenyl)piperazine (733 mg, 1.64 mmol) and triethylamine (0.34 mL, 2.46 mmol) in dichloromethane (20 mL) was added methanesulfonyl chloride (0.152 mL, 1.97 mmol) at 0 °C. After stirring for 20 min, the reaction mixture was

partitioned between ethyl acetate and water. The organic layer was washed with brine, dried over anhydrous sodium sulfate, and concentrated in vacuo to afford (S)-1,4-di(t-butoxycarbonyl)-2-(4-((R)-3-(methansulfonyloxy)pyrrolidin-1-yl) phenyl)piperazine (877 mg, quant.) as a brown solid.

To a solution of (S)-1,4-di(t-butoxycarbonyl)-2-(4-((E)-3-methansulfonyloxy-pyrrolidino)phenyl)piperazine (877 mg, 1.64 mmol) in toluene (10 mL) was added pyrrolidine (0.64 mL, 8.19 mmol), and the resulting solution was heated at 90 °C for 8 h. After checking consumption of the starting material with TLC, the reaction mixture was partitioned between ethyl acetate and saturated sodium bicarbonate aqueous solution. The organic layer was washed with brine, dried over anhydrous sodium sulfate, and concentrated in vacuo. The residue was purified by silica gel column chromatography eluting 30-100% ethyl acetate-hexane and then 3-10% methanol-ethyl acetate to afford (S)-1,4-di(t-butoxycarbonyl)-2-(4-((S)-3-(pyrrolidin-1-yl)pyrrolidin-1-yl) phenyl)piperazine (479 mg, 58%) as a pale yellow powder.

To a solution of (S)-1,4-di(t-butoxycarbonyl)-2-(4-((S)-3-(pyrrolidin-1-yl) pyrrolidin-1-yl)phenyl)piperazine (479 mg, 0.957 mmol) in dichloromethane (4 mL) was added 4 N hydrogen chloride in ethyl acetate (4 mL) at room temperature. After stirring for 3 h, the resulting precipitate was collected and dried in vacuo to afford (S)-2-(4-((S)-3-(pyrrolidin-1-yl)pyrrolidin-1-yl)phenyl)piperazine tetrahydrochloride (370 mg, 87%) as a white solid.

To a suspension of (S)-2-(4-((S)-3-(pyrrolidin-1-yl)pyrrolidin-1-yl)phenyl) piperazine tetrahydrochloride (98 mg, 0.22 mmol) in tetrahydrofuran (5 mL) was added triethylamine (0.20 mL, 1.40 mmol) and 2-chloro-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one (44 mg, 0.20 mmol) at room temperature. After stirring for 24 h, the reaction mixture was concentrated in vacuo. The residue was dissolved in dichloromethane and sodium bicarbonate aqueous solution, and the solution was passed through CHEM ELUT CE1010 (manufactured by VARIAN). The filtrate was

concentrated, and the resulting crystals were washed in a mixture of diisopropyl ether and ethanol to afford (S)-2-(3-(4-(3-(pyrrolidin-1-yl)pyrrolidin-1-yl)phenyl)piperazin-1-yl)-3- methyl-6-(4-pyridyl)pyrimidin-4-one (80 mg, 82%) as a pale yellow solid.

Example 12: Synthesis of (S)-3-methyl-6-(4-pyrimidinyl)-2-(3-(4-(3-(pyrrolidin-1-yl) pyrrolidin-1-yl)phenyl)piperazin-1-yl)pyrimidin-4-one (No. YA1577)

To a suspension of (S)-2-(4-((S)-3-(pyrrolidin-1-yl)pyrrolidin-1-yl)phenyl) piperazine tetrahydrochloride (99 mg, 0.22 mmol) in tetrahydrofuran (5 mL) was added triethylamine (0.20 mL, 1.40 mmol) and 2-chloro-3-methyl-6-(4-pyrimidinyl)-3H-pyrimidin-4-one (45 mg, 0.20 mmol) at room temperature. After stirring for 24 h, the reaction mixture was concentrated in vacuo. The residue was dissolved in dichloromethane and sodium bicarbonate aqueous solution, and the solution was passed through CHEM ELUT CE1010 (manufactured by VARIAN). The filtrate was concentrated, and the resulting crystals were washed in a mixture of diisopropyl ether and ethanol to afford (S)-3-methyl-6-(4-pyrimidinyl)-2-(3-(4-(3-(pyrrolidin-1-yl)pyrrolidin-1-yl)phenyl)piperazin-1-yl)-pyrimidin-4-one (65 mg, 66%) as a pale yellow solid.

Example 13: Synthesis of (S)-2-(3-(4-(N-cyclohexyl-N-methylamino)phenyl) piperazin- 1-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one (No. XA1999)

A suspension of (S)-2-(4-bromophenyl)-1,4-di(t-butoxycarbonyl) piperazine (1.21 g, 2.75 mmol), N-methylcyclohexylamine (0.43 mL, 3.30 mmol), palladium acetate(25 mg, 0.11 mmol), 2-(di-t-butylphosphino)biphenyl (66 mg, 0.22 mmol), and sodium t-butoxide (370 mg, 3.85 mmol) in t-butanol (15 mL) was heated at 80 °C for 8 h. The resulting solution was partitioned between ethyl acetate and water. The organic layer was washed with brine, dried over anhydrous sodium sulfate, and concentrated in vacuo. The residue was purified by silica gel column

chromatography eluting 10-15% ethyl acetate-hexane to afford (S)-1,4-di(t-butoxycarbonyl)-2-(4-(N-cyclohexyl-N-methylamino)phenyl)piperazine (917 mg) as white crystals.

To a solution of (S)-1,4-di(t-butoxycarbonyl)-2-(4-(N-cyclohexyl-N-methylamino)phenyl)piperazine in dichloromethane (4 mL) was added 4 N hydrogen chloride in ethyl acetate(4 mL). After stirring for 40 min, the white precipitate was collected, which included impurities. The mixture was purified by a reverse phase chromatography eluting 0.05% TFA in water-acetonitrile to afford (S)-2-(4-(N-cyclohexyl-N-methylamino)phenyl)piperazine (59 mg 8% in 2 steps) as a clear oil.

To a solution of (S)-2-(4-(N-cyclohexyl-N-methylamino)phenyl)
piperazine(50 mg, 0.183 mmol) and triethylamine (0.077 mL, 0.55 mmol) was added
2-chloro-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one (37 mg, 0.17 mmol) at room
temperature. After stirring for 4.5 h, the reaction mixture was concentrated in
vacuo. The residue was partitioned between dichloromethane and saturated
sodium bicarbonate aqueous solution. The organic layer was dried over anhydrous
sodium sulfate and concentrated. The residue was purified by a reverse phase
chromatography eluting 0.05% TFA in water-acetonitrile to afford
(S)-2-(3-(4-(N-cyclohexyl-N-methylamino)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyr
idyl)pyrimidin-4-one (67 mg, 88%) as a oil, which was dissolved in ethyl acetate and
treated with 4 N hydrogen chloride in ethyl acetate to yield its trihydrochloride.

Example 14: Synthesis of (S)-2-(3-(4-(N,N-dimethylamino)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one trihydrochloride (No. XA2017)

A suspension of (S)-2-(4-bromophenyl)-1,4-di(t-butoxycarbonyl) piperazine (1.14 g, 2.59 mmol), N,N-dimethylamine hydrochloride (422 mg, 5.17 mmol), palladium acetate (23 mg, 0.10 mmol), 2-(di-t-butylphosphino)biphenyl(62 mg, 0.21 mmol), and sodium t-butoxide (845 mg, 8.80 mmol) in t-butanol (15 mL)

was heated at 90 °C for 3 h. After dilution with ethyl acetate, the resulting solution was passed through a Celite column. The filtrate was concentrated, and the residue was purified by silica gel column chromatography eluting 10-20% ethyl acetate-hexane to afford (S)-1,4-di(t-butoxycarbonyl)-2-(4-(N,N-dimethylamino) phenyl)piperazine (556 mg, 53%) as white crystals.

To a solution of (S)-1,4-di(t-butoxycarbonyl)-2-(4-(N,N-dimethylamino) phenyl)piperazine (556 mg, 1.37 mmol) in dichloromethane (4 mL) was added 4 N hydrogen chloride in ethyl acetate (4 mL). After stirring for 8.5 h, the white precipitate was collected and dried in vacuo to afford (S)-2-(4-(N,N-dimethylamino) phenyl)piperazine trihydrochloride (413 mg, 96%) as white crystals.

To a suspension of (S)-2-(4-(N,N-dimethylamino)phenyl)piperazine trihydrochloride(115 mg, 0.365 mmol) in tetrahydrofuran (5 mL) was added triethylamine (0.28 mL, 2.0 mmol) and then 2-chloro-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one (74 mg, 0.33 mmol) at room temperature. After stirring for 10 h, the resulting mixture was concentrated in vacuo. The residue was dissolved in dichloromethane and saturated sodium bicarbonate aqueous solution, and the solution was passed through CHEM ELUT CE1010 (manufactured by VARIAN). The filtrate was concentrated in vacuo to yield crystals, which were washed with diisopropyl ether. After the crystals were dissolved in ethyl acetate, the solution was treated with 4 N hydrogen chloride in ethyl acetate. White precipitate was collected and dried in vacuo to afford (S)-2-(3-(4-(N,N-dimethylamino)phenyl) piperazin-1-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one trihydrochloride (135 mg, 81%).

Example 15: Synthesis of (S)-2-(3-(4-methoxybiphen-4-yl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one (No. XA1991)

A mixture of (S)-2-(4-bromophenyl)-1,4-di(t-butoxycarbonyl)piperazine (1.82 g, 4.11 mmol), 4-methoxyphenylboronic acid (937 mg, 6.17 mmol), sodium

carbonate (2.18 g, 20.6 mmol), and tetrakis(triphenylphosphine)palladium(0) (238 mg, 0.206 mmol) was dissolved in dimethoxyethane (20 mL) and water (20 mL), and the resulting solution was refluxed for 3 h. After cooling to room temperature, the mixture was partitioned between ethyl acetate and water. The organic layer was washed with brine, dried over anhydrous sodium sulfate, and concentrated in vacuo. The resulting solid was washed with ethyl acetate to afford (S)-1,4-di(t-butoxycarbonyl)-2-(4'-methoxybiphen-4-yl) piperazine (1.46 g, 75.9%) as a white solid.

To a solution of (S)-1,4-di(t-butoxycarbonyl)-2-(4'-methoxybiphen-4-yl)-piperazine (1.46 g, 3.12 mmol) in dichloromethane (8 mL) was added 4 N hydrogen chloride in ethyl acetate (8 mL) at room temperature. After stirring for 1 h, the precipitate was collected and dried in vacuo to afford (S)-2-(4'-methoxybiphen-4-yl) piperazine dihydrochloride (1.00 g, 94%) as white solid.

To a suspension of (S)-2-(4'-methoxybiphen-4-yl)-piperazine dihydrochloride (237 mg, 0.694 mmol) in tetrahydrofuran (5 mL) was added triethylamine (0.40 mL, 2.9 mmol) and then 2-chloro-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one (128 mg, 0.579 mmol) at room temperature. After stirring for 28 h, the resulting mixture was concentrated in vacuo. The residue was partitioned between dichloromethane and saturated sodium bicarbonate aqueous solution, and the organic layer was dried over anhydrous sodium sulfate and then concentrated in vacuo. The resulting solid was washed with hot ethanol to afford (S)-2-(3-(4-methoxybiphen-4-yl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one (252 mg, 96%), which was treated with 4 N hydrogen chloride in ethyl acetate to yield its dihydrochloride salt (252 mg) as pale yellow crystals.

Example 16: Synthesis of (S)-2-(3-benzylpiperazin-1-yl)-3-methyl-6-(4-pyridyl) pyrimidin-4-one (No. XA2004)

To a solution of L-phenylalanine ethyl ester hydrochloride (3.875 g, 16.87

mmol), Boc-glycine (2.815 g, 16.07 mmol) in dichloromethane (100 mL) was added triethylamine (2.35 mL,16.87 mmol) and then 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride (3.23 g, 16.87 mmol) at room temperature. After the resulting mixture was stirred for 2.5 h, it was partitioned between ethyl acetate and water. The organic layer was washed with 1 N hydrochloric acid, brine, and then saturated sodium bicarbonate aqueous solution, dried over anhydrous sodium sulfate, and concentrated in vacuo to afford Boc-glyclylphenylalanine ethyl ester (5.96 g).

To a solution of Boc-glycylphenylalanine ethyl ester (5.96 g) in dichloromethane (20 ml) was added trifluoroacetic acid (20 mL) at room temperature. After stirring 1.5 h, the resulting solution was concentrated in vacuo. The residue was dissolved in water, into which sodium bicarbonate was added until the pH was 9. After the solution was stirred for several hours, the resulting white crystals were collected and dried in vacuo to afford (S)-3-benzyl-2,5-dioxopiperazine (2.29 g, 70% in 2 steps) as a white powder.

To a suspension of (S)-3-benzyl-2,5-dioxopiperazine (2.284 g, 11.18 mmol) in tetrahydrofuran (20 mL) was added borane-tetrahydrofuran complex (49 mL, 1.0 M solution in THF, 49 mmol) at room temperature. The resulting mixture was refluxed for several hours before it was quenched with methanol at 0 °C. After concentration in vacuo, the residue was treated with 10% sodium hydroxide aqueous solution, which was extracted with dichloromethane thoroughly. The organic layer was washed with water, dried over anhydrous sodium sulfate, and concentrated in vacuo to afford white crystals, which were washed with ether to yield (S)-2-benzylpiperazine (795 mg, 40.3%).

To a solution of (S)-2-benzylpiperazine (48 mg, 0.27 mmol) in tetrahydrofuran (5 mL) was added triethylamine (0.10 mL, 0.74 mmol) and then 2-chloro-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one (55 mg, 0.248 mmol) at room temperature. After refluxing for 24 h, the resulting mixture was concentrated in

vacuo. The residue was partitioned between dichloromethane and saturated sodium bicarbonate aqueous solution, and the organic layer was dried over anhydrous sodium sulfate and then concentrated in vacuo. The residue was purified by a reverse phase chromatography eluting 0.05% TFA in water-acetonitrile to afford (S)-2-(3-benzylpiperazin-1-yl)-3-methyl-6-(4-pyridyl) pyrimidin-4-one (73 mg 81%), which was treated with 4 N hydrogen chloride in ethyl acetate to yield its dihydrochloride salt as a yellow powder.

Example 17: Synthesis of (S)-3-methyl-2-(3-(4-(1,2,4-oxadiazol-3-yl)phenyl) piperazin-1-yl)-6-(4-pyridyl)pyrimidin-4-one (No. XA2039)

To a solution of 4-cyanoacetophenone (11.32 g, 77.98 mmol) in dichloromethane (200 mL) was added bromine (4.00 mL, 78.0 mmol) dropwise at room temperature. After stirring several minutes, the reaction mixture was washed with water, dried over anhydrous sodium sulfate, and concentrated in vacuo to afford 4-cyanophenacyl bromide (17.73 g) as a white solid.

A solution of 4-cyanophenacyl bromide (11.20 g, 49.99 mmol) in dimethylsulfoxide (83 mL) was treated with water (0.90 mL, 49.99 mmol). After stirring for 24 h at room temperature, it was poured into ice-water, and extracted with ether. The organic layer was washed with water and then brine, dried over anhydrous sodium sulfate, and concentrated in vacuo. The residue was purified by a silica gel column chromatography eluting 20-50% ethyl acetate in hexane to afford 4-cyanophenylglyoxal (5.10 g, 64.1%) as a yellow solid.

To a solution of 4-cyanophenylglyoxal (2.21 g, 12.5 mmol) in methanol (30 mL) and tetrahydrofuran (10 mL) was added ethylenediamine (1.00 mL, 14.96 mmol) at room temperature. After the mixture was stirred at room temperature for 1 h, sodium borohydride (943 mg, 24.92 mmol) was added at 0 °C. The solution was warmed up to room temperature and stirred for another 2 h before it was quenched with 1 N hydrochloric acid. After concentration in vacuo, the mixture was

partitioned between ether and water. The aqueous layer was alkalized with sodium hydroxide, and extracted with dichloromethane. The extract was dried over anhydrous sodium sulfate, and then concentrated in vacuo to afford reddish oil (1.69 g). The oil was dissolved in dichloromethane (30 mL), into which triethylamine (3.82 mL ,27.41 mmol) and di-tert-butyl dicarbonate (5.98 g, 27.41 mmol) at room temperature. The reaction mixture was stirred for several hours before it was partitioned between ethyl acetate and water. The organic layer was dried over anhydrous sodium sulfate, and then concentrated in vacuo. The residue was purified by a silica gel column chromatography eluting 5-20% ethyl acetate in hexane to afford 1,4-di(t-butoxycarbonyl)-2-(4-cyanophenyl)piperazine (2.46 g, 50.9%) as white crystals.

A solution of 1,4-di(t-butoxycarbonyl)-2-(4-cyanophenyl)piperazine (558 mg, 1.44 mmol), hydroxylamine hydrochloride (300 mg, 4.23 mmol), and sodium carbonate (763 mg, 7.20 mmol) in ethanol (3 mL) and water (3 mL) was heated at 80 °C for 2.5 h before it was partitioned between dichloromethane and water. The aqueous layer was extracted with dichloromethane. The combined organic layer was dried over sodium sulfate, and concentrated in vacuo to afford white foam (680 mg), which was dissolved in toluene (5 mL) and treated with triethyl orthoformate (2.4 mL, 14.4 mmol) and p-toluenesulfonic acid (27 mg, 0.14 mmol). The solution was heated at 90 °C for 1 h before it was partitioned between dichloromethane and saturated sodium bicarbonate aqueous solution. The organic layer was dried over anhydrous sodium sulfate, and concentrated in vacuo. The resulting white crystals were washed with ethyl acetate, and dried in vacuo to afford 1,4-di(t-butoxycarbonyl)-2-(4-(1,2,4-oxadiazol-3-yl)phenyl)piperazine (464 mg, 75% in 2 steps).

To a solution of 1,4-di(t-butoxycarbonyl)-2-(4-(1,2,4-oxadiazol-3-yl) phenyl)piperazine (464 mg, 1.08 mmol) in dichloromethane (2 mL) was added 4 N hydrogen chloride in ethyl acetate (3 mL) at room temperature. After stirring for

1.5 h, the precipitate was collected and dried in vacuo to afford 2-(4-(1,2,4-oxadiazol-3-yl)phenyl)piperazine dihydrochloride (321 mg, 98%) as a white powder.

To a suspension of 2-(4-(1,2,4-oxadiazol-3-yl)phenyl)piperazine dihydrochloride (102 mg, 0.34 mmol) in tetrahydrofuran (6 mL) was added triethylamine (0.23 mL, 1.65 mmol) and then 2-chloro-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one (73 mg, 0.33 mmol) at room temperature. After stirring for 24 h, the resulting mixture was concentrated in vacuo. The residue was dissolved in dichloromethane and saturated sodium bicarbonate aqueous solution, and the solution was passed through CHEM ELUT CE1010 (manufactured by VARIAN). The filtrate was concentrated in vacuo to yield crystals, which were washed with diisopropyl ether and ethanol to afford (S)-2-(3-(4-(1,2,4-oxadiazol-3-yl)phenyl) piperazin-1-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one (102 mg 74%) as a white powder.

Example 18: Synthesis of 2-[4-(2-Methoxyphenylamino)-piperidin-1-yl]-3-methyl-6-(pyridin-4-yl)-3H-pyrimidin-4-one (No. XB276)

To a solution of anisidine (3.1g, 25.2 mmol) and 4-oxo-piperidine-1-carboxylic acid tert-butyl ester (5.0 g, 25.1 mmol) in methanol (100 mL) was added sodium triacetoxyborohydride (13.4 g, 63.2 mmol) at room temperature. After stirring for 6 h, the resulting suspension was partitioned between ethyl acetate and 1N sodium hydroxide. The aqueous layer was extracted with ethyl acetate. The combined organic layer was washed with brine, dried over magnesium sulfate, and concentrated *in vacuo*. The residue was purified by silica gel chromatography eluting 10-20 % ethyl acetate in hexane to furnish 4-(2-methoxyphenylamino)-piperidine-1-carboxylic acid tert-butyl ester (2.7g, 8.8mmol, 35%) as a pale yellow oil.

To a solution of 4-(2-methoxyphenylamino)-piperidine-1-carboxylic acid tert-butyl ester (2.7g, 8.8mmol) in methanol (30 mL) was added 4N hydrochloric

acid in ethyl acetate (20 mL) at room temperature. After stirring for 1h, the resulting suspension was concentrated *in vacuo*. The residue was partitioned between chloroform and 1N sodium hydroxide. The aqueous layer was extracted with chloroform. The combined organic layer was washed with brine, dried over magnesium sulfate, and concentrated *in vacuo*. The residue was purified by silica gel chromatography eluting 10-20% methanol in chloroform to furnish 4-(2-methoxyphenylamino)-piperidine (1.8 g, 8.7 mmol, 99%) as white crystals.

To a solution of 4-(2-methoxyphenylamino)-piperidine (0.8 g, 3.87 mmol) and triethylamine (1.3 g, 12.8 mmol) in tetrahydrofuran (20 mL) was added 2-chloro-3-methyl-6-(pyridin-4-yl)-3H-pyrimidin-4-one (0.8 g, 3.61 mmol) portionwise. After stirring for 12 h, the resulting suspension was partitioned between chloroform and 1N sodium hydroxide. The aqueous layer was extracted with chloroform. The combined organic layer was washed with brine, dried over magnesium sulfate, and concentrated *in vacuo*. The residue was purified by silica gel chromatography eluting 5-10% methanol in chloroform to furnish 2-(4-(2-methoxyphenylamino)-piperidin-1-yl)-3-methyl-6-(pyridin-4-yl)-3H-pyrimidin-4-one (1.2 g, 3.07 mmol, 85%) as white crystals.

Example 19: Synthesis of 3-Methyl-2-(3-(4-(4-methylpiperazin-1-yl)-phenyl)-piperidin-1-yl)-6-(pyridin-4-yl)-3H-pyrimidin-4-one (No. XB278)

A solution of (4-bromo-phenyl)-acetic acid ethyl ester (2.31 g, 9.50 mmol) in dimethylsulfoxide (6 mL) was added to the suspension of sodium hydride (407 mg, 60% in oil, 10.17 mmol) and stirred 3 min. A solution of (3-bromo-propyl)-carbamic acid tert-butyl ester (2.03 g, 8.52 mmol) in dimethylsulfoxide (6 mL) was added to the solution and stirred at 50 °C for 30 min. The resulting solution was partitioned between ethyl acetate and saturated aqueous ammonium chloride. The aqueous layer was extracted with ethyl acetate. The combined organic layer was washed with water and brine, dried by passing through Celite column, and concentrated in

vacuo. The residue was purified by silica gel chromatography eluting ethyl acetate / hexane (4/1 to 3/1, v/v) to afford 3-(4-Bromo-phenyl)-6-tert-butoxycarbonylamino-hexanoic acid ethyl ester (2.43 g, 74%).

To a solution of 3-(4-Bromo-phenyl)-6-tert-butoxycarbonylamino-hexanoic acid ethyl ester (2.43 g, 6.32 mmol) in ethyl acetate (3 mL) was added 4 N hydrogen chloride in ethyl acetate (6 mL) at room temperature. Removal of the solvent in vacuo after stirring for 30 min afforded 6-Amino-3-(4-bromo-phenyl)-hexanoic acid ethyl ester hydrochloride that was used in the next step without further purification.

A solution of 6-amino-3-(4-bromo-phenyl)-hexanoic acid ethyl ester hydrochloride, potassium carbonate (1039 mg, 7.52 mmol) in ethanol (50 ml) was refluxed for 20 hr. Solvent was removed in vacuo after addition of dilute hydrochloric acid and water was added to the residue. Filtration, wash with water and dryness afforded 3-(4-Bromo-phenyl)-piperidin-2-one (1387 mg, 86%, 2 steps).

To an ice-cooled solution of 3-(4-bromo-phenyl)-piperidin-2-one (37.97 g, 149 mmol) in tetrahydrofuran (250 ml) was added borane-tetrahydrofuran complex (335 ml, 1.0 M solution in THF, 335 mmol). The solution was stirred overnight at room temperature, and then refluxed 1.5 hr after addition of 10% aqueous hydrochloric acid. Solvents was removed in vacuo, and the residue was partitioned between dichloromethane and 1N sodium hydroxide. The aqueous layer was extracted with dichlorometane. The combined organic layer was washed with water and brine, dried over sodium sulfate, and concentrated in vacuo. The residue was dissolved in water (100 mL) and concentrated hydrochloric acid (100 mL) and refluxed for 3 hr. Sodium hydroxide was added to the solution and the resulting solution was extracted with dichlorometane. The organic layer was washed with water and brine, dried over sodium sulfate Concentration in vacuo afforded 3-(4-bromo-phenyl)-piperidine (32 18 g, 90%).

To a suspension of 3-(4-bromophenyl)-piperidine (25.2 g, 105 mmol), and

triethylamine (13 g, 128 mmol) in tetrahydrofuran (250 mL) was added di-tert-butyl-dicarbonate (25.2 g, 105 mmol) at room temperature. After stirring for 1 h, the resulting suspension was partitioned between ethyl acetate and 1N sodium hydroxide. The aqueous layer was extracted with ethyl acetate. The combined organic layer was washed with brine, dried over magnesium sulfate, and concentrated in vacuo. The residue was washed by hexane to furnish 3-(4-bromophenyl)- piperidine-1-carboxylic acid tert-butyl ester (35.7 g, 105 mmol, 100%) as white crystals.

To a suspension of 3-(4-bromophenyl)-piperidine-1-carboxylic acid tert-butyl ester (3.0 g, 8.8 mmol), palladium acetate (80 mg, 0.36 mmol), 2-(di-t-butyl phosphino)biphenyl (210 mg, 0.70 mmol), and sodium t-butoxide (1.2 g, 125 mmol) in toluene (30 mL) was added N-methylpiperazine (1.3 g, 13.0 mmol) at room temperature. After heating at 90 °C for 5 h, the resulting suspension was passed through a Celite column. The filtrate was concentrated under reduced pressure, and the residue was purified by silica gel chromatography eluting 5-25% of ethyl acetate in hexane to afford 3-(4-(4-methylpiperazin-1-yl)-phenyl)-piperidine-1-carboxylic acid tert-butyl ester (2.0 g, 5.56 mmol, 63%) as white crystals.

To a solution of 3-(4-(4-methylpiperazin-1-yl)-phenyl)-piperidine-1-carboxylic acid tert-butyl ester (2.0 g, 5.56 mmol) in methanol (20 mL) was added 4N hydrochloric acid in ethyl acetate (20 mL) at room temperature. After stirring for 1h, the resulting suspension was concentrated *in vacuo*. The residue was washed with ethyl acetate to furnish 3-(4-(4-methylpiperazin-1-yl)-phenyl)-piperidine trihydrochloride (1.84 g, 4.99 mmol, 90%) as white crystals.

To a solution of 3-(4-(4-methylpiperazin-1-yl)-phenyl)-piperidine trihydrochloride salt (0.4 g, 1.08 mmol) and triethylamine (0.6 g, 5.93 mmol) in tetrahydrofuran (10 mL) was added 2-chloro-3-methyl-6-(pyridin-4-yl)-3H-pyrimidin-4-one (0.22 g, 0.99 mmol) portionwise. After stirring for 12 h, the

resulting suspension was partitioned between chloroform and 1N sodium hydroxide. The aqueous layer was extracted with chloroform. The combined organic layer was washed with brine, dried over magnesium sulfate, and concentrated *in vacuo*. The residue was purified by silica gel chromatography eluting 5-10% methanol in chloroform to furnish 3-methyl-2-(3-(4-(4-methylpiperazin-1-yl)-phenyl)-piperidin-1-yl)-6-(piridin-4-yl)-3H-pyrimidin-4-one (0.31 g, 0.70 mmol, 71%) as white crystals.

Example 20: Synthesis of 2-(3-(4-cyclohexylaminophenyl)-piperidin-1-yl)-3-methyl-6-(pyridin-4-yl)-3H-pyrimidin-4-one (No. XB301)

To a suspension of 3-(4-bromophenyl)-piperidine-1-carboxylic acid tert-butyl ester (8.0 g, 23.5 mmol), palladium acetate (210 mg, 0.94 mmol), 2-(di-t-butyl phosphino)biphenyl (560 mg, 1.88 mmol), and sodium t-butoxide (3.2 g, 33.3 mmol) in toluene (80 mL) was added cyclohexylamine (2.8 g, 28.2 mmol) at room temperature. After heating at 90 °C for 5 h, the resulting suspension was passed through a Celite column. The filtrate was concentrated under reduced pressure, and the residue was purified by silica gel chromatography eluting 5-25% of ethyl acetate in hexane to afford 3-(4-cyclohexylaminophenyl)-piperidine-1-carboxylic acid tert-butyl ester (6.74 g, 18.8 mmol, 80%) as white crystals.

To a solution of 3-(4-cyclohexylaminophenyl)-piperidine-1-carboxylic acid tert-butyl ester (6.74 g, 18.8 mmol) in methanol (50 mL) was added 4N hydrochloric acid in ethyl acetate (40 mL) at room temperature. After stirring for 1 h, the resulting suspension was concentrated *in vacuo*. The residue was washed with ethyl acetate to furnish 3-(4-cyclohexylaminophenyl)-piperidine dihydrochloride (5.84 g, 17.6 mmol, 94%) as white crystals.

To a solution of 3-(4-cyclohexylaminophenyl)-piperidine dihydrochloride salt (1.0 g, 3.02 mmol) and triethylamine (1.5 g, 14.8 mmol) in tetrahydrofuran (20

mL) was added 2-chloro-3-methyl-6-(pyridin-4-yl)-3H-pyrimidin-4-one (0.64 g, 2.89 mmol) portionwise. After stirring for 12 h, the resulting suspension was partitioned between chloroform and 1N sodium hydroxide. The aqueous layer was extracted with chloroform. The combined organic layer was washed with brine, dried over magnesium sulfate, and concentrated *in vacuo*. The residue was purified by silica gel chromatography eluting 5-10% methanol in chloroform to furnish 2-(3-(4-cyclohexylaminophenyl)-piperidin-1-yl)-3-methyl-6-(pyridin-4-yl)-3H-pyrimidin-4-one (1.23 g, 2.77 mmol, 96%) as white crystals.

Example 21: Synthesis of 2-(4-(4-Bromo-phenyl)-piperidin-1-yl)-3-methyl-6-pyridin-4-yl-3H-pyrimidin-4-one (No. XB267)

Mixture of 4-bromobenzaldehyde (22.40 g, 121.1 mmol), dimethyl malonate(19.37 g, 146.6 mmol), cat. acetic acid and cat. piperidine in toluene (100 ml) were refluxed for 6 h with azeotropically removal of water. Resulting solution was partitioned between ethyl acetate and water. The aqueous layer was extracted with ethyl acetate. The combined organic layer was washed with water, saturated aqueous sodium bicarbonate and brine, dried over sodium sulfate. Concentration of the organic solvent in vacuo afforded 2-(4-bromo-benzylidene)-malonic acid diethyl ester as an oil that was used in the next step without further purification.

To an ice-cooled solution of dimethyl malonate (19.35 g, 146.5 mmol) and sodium methoxide (30. 12g in 28% methanol solution, 156.1 mmol) in methanol (300 ml) was added 2-(4-bromo-benzylidene)-malonic acid diethyl ester in methanol (50 ml). After stirring for 3 h, the solvent was removed in vacuo and the residue was partitioned between ethyl acetate and dilute hydrochloric acid. The aqueous layer was extracted with ethyl acetate. The combined organic layer was washed with brine, dried over sodium sulfate. Concentration of the organic solvent in vacuo afforded 3-(4-bromo-phenyl)-2,4-bis-ethoxycarbonyl-pentanedioic acid diethyl ester as an oil that was used in the next step without further purification.

A solution of 3-(4-bromo-phenyl)-2,4-bis-ethoxycarbonyl-pentanedioic acid diethyl ester in concentrated hydrochloric acid (100 ml) and acetic acid (100 ml) was refluxed for 8 h. Removal of the solvent in vacuo and recrystallization of the residue from acetonitrile yielded 3-(4-bromo-phenyl)-pentanedioic acid (22.84 g in 1st crop, 65%, 3.84 g in 2nd crop, 11.05% from 4-bromobenzaldehyde).

A solution 3-(4-bromo-phenyl)-pentanedioic acid (26.68 g, 92.9 mmol) in acetic anhydride (100 ml) was refluxed for 1.5 hr. Removal of the solvent in vacuo, and remaining solvent were azeotropically removed using toluene.

Teterahydrofuran (200 ml) and aqueous ammonia (28%, 50 ml) was added to the residue and stirred overnight. After removal of the solvent in vacuo, acetic anhydride (100 ml) was added and refluxed for 4 hr. After removal of the solvent in vacuo and succeeding azeotropic distillation with toluene, residue was partitioned between ethyl ether and water. Filtration of the suspension and dryness afforded the 4-(4-bromo-phenyl)-piperidine-2,6-dione (12.53 g, 50%) as a solid.

To an ice-cooled solution of lithium tetrahydroborate (4.13 g, 189.6 mmol) in tetrahydrofuran (200 ml) was added chlorotrimethylsilane (41.52 g, 382.2 mmol). After stirring 5 min, a solution of 4-(4-bromo-phenyl)-piperidine-2,6-dione (12.53 g, 46.7 mmol) was added and stirred overnight. The resulting solution was concentrated in vacuo after addition of 10% aqueous hydrochloric acid. The residue was dissolved in aqueous sodium hydroxide solution and methanol, and a solution of di-tert-butyl dicarbonate (11.45 g, 52.5 mmol) in methanol (10 ml) was added and stirred for 6 h. After removal of the solvent in vacuo, concentrated hydrochloric acid wad added and stirred overnight. After extraction of the solution by diethyl ether, sodium hydroxide was added to the aqueous layer to turn basic, and extracted with dichloromethane. The organic layer was washed with brine, dried over sodium sulfate. The residue of the diethyl ether and dichloromethane after removal of the solvents under reduced pressure was mixed and dissolved in tetrahydrofuran (200 ml). A solution of di-tert-butyl dicarbonate (7.45 g, 34.1 mmol) in tetrahydrofuran

(10 ml) and triethylamine were added and stirred overnight. The resulting solution was concentrated *in vacuo*. Purification of the residue by silica gel chromatography eluting hexane / ethyl acetate (5/1, v/v) furnished
4-(4-bromo-phenyl)-piperidine-1-carboxylic acid tert-butyl ester (14.4g, 91%) as a solid.

To a solution of furnished 4-(4-bromophenyl)-piperidine-1-carboxylic acid tert-butyl ester (1114 mg, 3.27 mmol) in ethyl acetate (1 mL) was added 4 N hydrogen chloride in ethyl acetate (2 mL) at room temperature. After stirring for 5 h, solvent was removed in vacuo, and the resulting solid was washed with ethyl acetate and dried in vacuo to afford (4-(4-bromophenyl)-piperidine hydrochloride (884 mg, 98%) as a white solid.

A solution of (4-(4-bromophenyl)-piperidine hydrochloride (279 mg, 1.01 mmol) and triethylamine (554 mg, 5.47 mmol), 2-chloro-3-methyl-6- (pyridin-4-yl)-3H-pyrimidin-4-one (206 mg, 0.929 mmol) in tetrahydrofuran (20 mL) was stirred for 3 hr. The resulting solution was diluted with tetrahydrofuran and filtrated. After removal of the solvents under reduced pressure and the purification of the resulting residue by CHEM ELUT CE1010 (manufactured by VARIAN) eluting dichloromethane / ethanol (15/1, v/v) and wash with ethyl acetate afforded 2-(4-(4-Bromophenyl)-piperidin-1-yl)-3-methyl-6-pyridin-4-yl-3H-pyrimidin-4-one (368 mg, 93%) as a solid.

Example 22: Synthesis of 3-Methyl-6-pyridin-4-yl-2-[4-(4-pyrrolidin-1-yl-phenyl)-piperidin-1-yl]-3H-pyrimidin-4-one (No. XB269)

A suspension of 4-(4-Bromophenyl)-piperidine-1-carboxylic acid tert-butyl ester (1.97 g, 5.79 mmol), palladium acetate (54 mg, 0.24 mmol), 2-(di-t-butylphosphino)biphenyl (154 mg, 0.52 mmol), and sodium t-butoxide (846 mg, 8.80 mmol), pyrrolidine (587 mg, 8.25 mmol) in toluene (80 mL) was heated at 90 °C for 3 h under nitrogen atmosphere. The resulting suspension was passed through a

Celite column and partitioned between ethyl acetate and water. The aqueous layer was extracted with ethyl acetate. The combined organic layer was washed with brine, dried over sodium sulfate, and concentrated in vacuo. Purification of the residue by HPLC afforded 4-(4-pyrrolidin-1-yl-phenyl)-piperidine-1-carboxylic acid tert-butyl ester as a solid that was used in the next step without further purification.

To a solution of furnished 4-(4-Pyrrolidin-1-yl-phenyl)-piperidine-1-carboxylic acid tert-butyl ester in ethyl acetate (5 mL) was added 4 N hydrogen chloride in ethyl acetate (10 mL) at room temperature. After stirring for 3 h, solvent was removed in vacuo, and the resulting solid was purified by HPLC. Sodium hydroxide was added to the resulting fractions and the aqueous layer was extracted by dichloromethane. Organic layer was washed with brine, and passed through Cerite. Removal of the solvent under reduced pressure afforded 4-(4-pyrrolidin-1-yl-phenyl)-piperidine (1.01 g, 76%).

A solution of 4-(4-pyrrolidin-1-yl-phenyl)-piperidine (215 mg, 0.933 mmol) and triethylamine (391 mg, 3.86 mmol), 2-chloro-3-methyl-6-(pyridin-4-yl)-3H-pyrimidin-4-one (187 mg, 0.844 mmol) in tetrahydrofuran (10 mL) was refluxed for 5 hr. The resulting solution was diluted with tetrahydrofuran and filtrated. After removal of the solvents under reduced pressure and the purification of the resulting residue by CHEM ELUT CE1010 (manufactured by VARIAN) eluting dichloromethane / ethanol (15/1, v/v) and wash with ethyl acetate afforded 3-methyl-6-pyridin-4-yl-2-(4-(4-pyrrolidin-1-yl-phenyl)-piperidin-1-yl)-3H-pyrimidin-4-one (284 mg, 81%) as a solid.

Example 23: Synthesis of 2-(4-(6-Fluorobenzo[b]thiophen-3-yl)piperidin-1-yl)-1-methyl-1H-[4,4']bipyrimidinyl-6-one (No. YB253)

The key intermediate 4-(6-fluorobenzo[b]thiophen-3-yl)piperidine hydrochloride of 2-[4-(6-fluorobenzo[b]thiophen-3-yl)piperidin-1-yl]-1-methyl- 1H-

[4,4']bipyrimidinyl-6-one was synthesized from 1-acetylpipridine-4-carboxylic acid which was prepared according to the method reported by Watanabe (*J. Heterocyclic Chem.*, 30, 445 (1993)).

To a solution of 1-benzoylpiperidine-4-carboxylic acid (66 g, 285 mmol) in dichloromethane (160 mL) was added thionyl chloride (26 mL, 388 mmol). After stirring at 60°C for 1 h, the mixture was added portionwise to a stirred suspension of 2,4-difluorobenzene (45 g, 397 mmol) and anhydrous aluminum chloride (88 g, 666 mmol) in dichloromethane (245 mL), and the reaction mixture was refluxed for 5 h. The reaction mixture was poured into a mixture of ice and concentrated hydrochloric acid and extracted with chloroform. The organic layer was dried over sodium sulfate and the solvent was evaporated under reduced pressure. Recrystallization from hexane gave 1-benzoyl-4-(2,4 -difluorobenzoyl)piperidine (46 g, 50%) as colorless crystals.

A solution of 1-benzoyl-4-(2,4-difluorobenzoyl)piperidine (40 g, 120 mmol), methyl thioglycolate (12 mL, 130 mmol) in dimethylformamide (500 mL) was stirred at room temperatute for 12h. The solvent was evaporated off in vacuo and the residue treated with water and ethyl acetate. The organic layer was dried over sodium sulfate and the solvent was evaporated under reduced pressure. The obtained residue was purified by silica gel column chromatography eluting hexane/ethyl acetate to give 3-(1-benzoylpiperidin-4-yl)-6-

fluorobenzo[b]thiophene-2 -carboxylic acid (11.8 g, 26%) as an oil.

3-(1-Benzoylpiperidin-4-yl)-6-fluorobenzo[b]thiophene-2-carboxylic acid (10 g, 26 mmol) was suspended in quinoline (100 mL) and cupper powder (0.5g) was added. After stirring at 200°C for 1 h, the mixture was cooled to room temperature and partitioned between ethyl acetate and water. The organic layer was dried over magnesium sulfate and evaporated. The obtained residue was purified by silica gel column chromatography eluting hexane/ ethyl acetate to give (4-(6-

 ${\it fluorobenzo[b]thiophen-3-yl)}$ piperidin-1-yl) phenylmethanone (5.0 g, 48%) as yellow

crystals.

A solution of (4-(6-fluorobenzo[b]thiophen-3-yl)piperidin-1-yl) phenylmethanone (6.5 g, 19 mmol) in acetic acid (100 mL) and concentrated hydrochloric acid (100 mL) was stirred at 90°C for 10 h. To a solution of reaction mixture was added ethyl acetate. The precipitated crystals were collected by filtration and washed with ethyl acetate to give 4-(6-fluorobenzo[b]thiophen-3-yl)piperidine hydrochloride (4.8 g, 89%) as yellow crystals.

To a solution of 4-(6-fluorobenzo[b]thiophen-3-yl)piperidine hydrochloride (200 mg, 0.74 mmol) and 2-chloro-1-methyl-1H[4,4']bipyrimidinyl-6-one (160 mg, 0.70 mmol) in tetrahydrofuran (10 mL) was added triethylamine (212 mg, 2.1 mmol). The mixture was stirred at 90°C for 6 h. The solvent was evaporated off in vacuo and the residue was treated with water and chloroform. The organic layer was dried over sodium sulfate and the solvent was evaporated under reduced pressure. Recrystallization from ethyl acetate gave 2-[4-(6-fluorobenzo[b]thiophen-3-yl)piperidin-1-yl]-1-methyl-1H[4,4']bipyrimidinyl-6-one (220 mg, 96%) as colorless crystals.

Example 24: Synthesis of 2-(4-(Biphenyl-2-yl)piperazin-1-yl)-1-methyl-1H-[4,4']bipyrimidinyl-6-one (No. YA1552)

To a solution of 1-biphenyl-2-yl-piperazine dihydrochloride (311 mg, 1.0 mmol) and 2-chloro-1-methyl-1*H*-[4,4']bipyrimidinyl-6-one (202 mg, 0.91 mmol) in tetrahydrofuran (20 mL) was added triethylamine (404 mg, 4.0 mmol). The mixture was stirred at 90°C for 4 h. The solvent was evaporated off *in vacuo* and the residue treated with water and chloroform. The organic layer was dried over sodium sulfate and the solvent was evaporated under reduced pressure. Recrystallization from ethyl acetate gave 2-[4-(biphenyl-2-yl)piperazin-1-yl]-

1-methyl-1H-[4,4']bipyrimidinyl-6-one (250 mg, 65%) as colorless crystals.

The compounds in the following table were prepared in the same manner as the methods described above. The compound numbers in the following table correspond to those shown in the above-described table of preferred compounds.

Table 5

NO	NMR	Exact-MS
XA19	2.51-2.89(4H, m), 3.31-3.34(4H, m), 3.39(3H,s), 3.56(2H, s), 6.80(1H, s), 7.25-7.31(1H, m), 7.31-7.36(4H, m), 7.98(2H, dd, J=1.5, 4.8 Hz), 8.68(2H, dd, J=1.5, 4.5 Hz)(DMSO-d6)	362
XA25	3.32-3.34(4H, m), 3.46(3H, s), 3.48-3.51(4H, m), 6.80-6.85(1H, m), 6.84(1H, s), 7.01(2H, d, J=8.0 Hz), 7.23-7.28(2H, m), 8.00(2H, dd, J=1.3, 4.6 Hz), 8.70(2H, dd, J=1.5, 4.5 Hz)(DMSO-d6)	348
XA156	3.47(3H,s), 3.51-3.60(4H, m), 3.62-3.71(4H, m), 6.85(1H, s), 7.41-7.49(1H, m), 7.56-7.61(1H, m), 8.02(2H, dd, J=1.5, 4.5 Hz), 8.09(1H, d, J=8.1 Hz), 8.16(1H, d, J=8.1 Hz), 8.70(2H, dd, J=1.5, 4.8 Hz)(DMSO-d6)	405
XA289	1.11-1.28(3H, m), 2.98-3.16(1H, m), 3.28-3.41(1H, m), 3.39(3H, s), 3.54-3.80(3H, m), 3.88-3.99(1H, m), 4.08-4.26(4H, m), 4.32-4.45(1H, m), 7.13(1H, s), 7.37-7.53(5H, m), 8.45(2H, d, J=5.8 Hz), 8.96(2H, d, J=6.0 Hz) (DMSO-d6)	434
XA361	3.44(3H,s), 3.54-3.95(6H,m), 4.64(1H,brs), 7.11(1H,s), 7.42-7.51(3H,m), 7.74(2H,d,J=6.6Hz), 8.46(2H,d,J=5.7Hz), 8.94(2H,d,J=5.7Hz), 9.98(1H,brs), 10.46(1H, brs) (DMSO-d6).	348
XA364	(DMSO-d6): 3.41-3.76(4H, m), 3.48(3H, s), 3.89-4.01(2H, m), 4.96(1H, m), 7.16(1H, s), 7.33-7.58(3H, m), 8.11(1H, dd, J=7.2, 7.2Hz), 8.52(2H, d, J=6.6Hz), 8.97(2H, d, J=6.6Hz), 10.04(1H, m), 10.66(1H, m).	366
XA365	3.43(s, 3H), 3.51-3.96(m, 6H), 4.70(m, 1H), 7.00(s, 1H), 7.25(m, 1H), 7.54(m, 2H), 7.60(m, 1H), 8.20(d, J=5.7Hz, 2H), 8.80 (d, J=5.7Hz, 2H)(CDCl3)	366
XA366	2.27-2.85(1H, m), 2.94-3.08(3H, m), 3.43(3H,s), 3.59-3.67(2H, m), 3.94-3.97(1H, m), 6.81(1H, s), 7.19(2H, t, J=8.9 Hz), 7.50-7.55(2H, m), 7.96(2H, dd, J=1.6, 4.5 Hz), 8.68(2H, dd, J=1.5, 4.6 Hz)(DMSO-d6)	366

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XA366 (HCI)	3.35-3.50(2H, m), 3.46(3H, s), 3.58-3.75(2H, m), 3.86-3.97(2H, m), 4.68(1H, t, J=9.3 Hz), 7.15(1H, s), 7.35(2H, t, J=9.0 Hz), 7.82-7.87(2H, m), 8.48(2H, d, J=6.6 Hz), 8.96(2H, d, J=6.3 Hz), 9.55-10.08(1H, m), 10.54-10.70(1H, m)(DMSO-d6)	366
XA369	(CDCl3):2.81(1H,dd,J=10.4,12.5Hz), 3.18-3.40(3H,m), 3.50-3.80(5H,m), 4.50(1H,dd,J=2.5,10.1Hz), 6.67(1H,s), 7.20-7.45(3H,m), 7.74(1H,dd,J=1.9,7.6Hz), 7.81(2H,dd,J=1.4,4.6Hz), 8.70(2H,dd,J=1.4,4.6Hz).	382
XA370	(CDCl3):3.01(1H,dd,J=10.4,12.5Hz), 3.10-3.30(3H,m), 3.50-3.80(5H,m), 4.04(1H,dd,J=2.7,10.8Hz), 6.67(1H,s), 7.20-7.45(4H,m), 7.50(1H,s), 7.80(2H,dd,J=1.5,4.8Hz), 8.71(2H,dd,J=1.5,5.1Hz).	382
XA371	3.44(3H,s), 3.44-3.71(7H,m), 3.90(2H,m), 4.66(1H,brs), 7.11(1H,s), 7.55(2H,d,J=8.4Hz), 7.78(2H,d,J=8.4Hz), 8.50(2H,d,J=5.7Hz), 8.95(2H,d,J=5.7Hz), 10.13(1H,brs), 10.60(1H,brs)(DMSO-d6)	382
XA376	(DMSO-d6):3.45(3H,s), 3.50-4.20(6H,m), 4.66(1H,br s), 7.12(1H,s), 7.72(4H,s), 8.44(2H,d,J=6.6Hz), 8.94(2H,d,J=6.6Hz), 10.00(1H,br s), 10.05(1H,br s).	426
XA391	3.37-3.93(6H, m), 3.48(3H, s), 3.87(3H, s), 4.89-4.95(1H, m), 7.04-7.12(2H, m), 7.17(1H, d, J=8.5 Hz), 7.45-7.51(1H, m), 7.75-7.81(1H, m), 8.29-8.38(2H, m), 8.83-8.91(2H, m), 9.66-9.77(1H, m), 9.91-10.10(1H, m)(DMSO)	378
XA392	(DMSO-d6):3.30-3.58(5H,m), 3.58-3.80(2H,m), 3.81(3H,s), 3.85-4.00(2H,m), 4.58-4.75(1H,m), 7.03(1H,dd,J=1.8,8.1Hz), 7.11(1H, s), 7.26(1H,d,J=7.8Hz), 7.35-7.50(2H,m), 8.41(2H,d,J=5.7Hz), 8.92(2H,d,J=6.0Hz), 9.80-10.00(1H,brd), 10.30-10.60(1H,brd).	.378
XA393	3.40-3.43(5H,m), 3.51-3.63(2H,m), 3.78(3H,s), 3.93(2H,m),4.58(1H,br), 7.02-7.06(3H,m), 7.64(2H,d,J=8.7Hz), 8.34(2H,d,J=6.3Hz), 8.88(2H,d,J=8.7Hz), 9.76(1H,br), 10.16(1H,br)(DMSO-d6)	378
XA396	1.30(3H, t, J=6.9 Hz), 3.38-3.54(1H, m), 3.49(3H, s), 3.65-3.79(1H, m), 3.84-3.98(2H, m), 4.02-4.18(2H, m), 4.84(1H, t, J=10.5 Hz), 7.04-7.16(2H, m), 7.15(1H, s), 7.39-7.45(1H, m), 7.89(1H, d, J=6.6 Hz), 8.49(2H, d, J=6.3 Hz), 8.95(2H, d, J=6.6 Hz), 9.92(1H, d, J=9.3 Hz), 10.51-10.64(1H, m)(DMSO-d6)	392

XA406	(DMSO-d6):3.64(2H,m), 3.94(2H,t,J=11.4Hz), 4.02-4.40(5H,m), 4.78(1H,t,J=10.4Hz), 7.06(1H,s), 7.98(2H,d,J=8.3Hz), 8.01(2H,d,J=8.3Hz), 8.23(1H,dd,J=1.2,5.1Hz), 9.02(1H,d,J=5.1Hz), 9.31(1H,d,J=1.2Hz), 10.03(1H,d,J=8.7Hz), 10.57(1H,s).	373
XA433	(CDCl3):2.00(4H,m), 3.03(1H,dd,J=10.8,12.0Hz), 3.21(3H,m), 3.29(4H,m), 3.57(3H,s), 3.62(2H,m), 3.90(1H,dd,J=2.7,10.8Hz), 6.57(2H,d,J=8.7Hz), 6.66(1H,s), 7.29(2H,d,J=8.7Hz), 7.80(2H,d,J=4.8Hz), 8.70(2H,d,J=4.8Hz).	417
XA439	(CDCl3):3.02(1H,dd,J=10.7,12.4Hz), 3.18(7H,m), 3.55(3H,s), 3.62(2H,m), 3.87(4H,m), 3.96(1H,dd,J=2.5,11.1Hz), 6.66(1H,S), 6.93(2H,d,J=8.7Hz), 7.36(2H,d,J=8.7Hz), 7.79(2H,d,J=4.5Hz), 8.70(2H,d,J=4.5Hz).	434
XA442	(CDCl3):2.36(3H,s), 2.59(4H,m), 3.02(1H,t,J=11.6Hz), 3.22(7H,m), 3.55(3H,s), 3.63(2H,m), 3.94(1H,d,J=10.5Hz), 6.66(1H,s), 6.93(2H,d,J=8.7Hz), 7.34(2H,d,J=8.7Hz), 7.80(2H,d,J=4.5Hz), 8.70(2H,d,J=4.5Hz).	446
XA463	3.41-3.54(3H, m), 3.48(3H, s), 3.69-3.73(1H, m), 3.78(3H, s), 3.82(3H, s), 3.86-3.93(2H, m), 4.89(1H, t, J=10.5 Hz), 6.97-7.01(1H, m), 7.08(1H, d, J=9.0 Hz), 7.15(1H, s), 7.66(1H, d, J=3.0 Hz), 8.51(2H, d, J=6.3 Hz), 8.96(2H, d, J=6.3 Hz), 9.93(1H, d, J=9.0 Hz), 10.60-10.73(1H, m)(DMSO-d6)	1
XA464	(DMSO-d6): 3.45(3H, s), 3.38-3.81(6H, m), 3.88(6H, s), 5.06(1H, m), 6.82(2H, d, J=8.7Hz), 7.04(1H, s), 7.44(1H, t, J=8.4Hz), 8.20(1H, m), 8.30(2H, d, J=6.3Hz), 8.87(2H, d, J=6.3Hz), 10.07(1H, m).	408
XA468	3.40-3.50(4H, m), 3.47(3H, s), 3.83-3.94(2H, m), 3.88(3H, s), 4.81-4.91(1H, m), 6.92-6.99(1H, m), 7.07-7.10(1H, m), 7.12(1H, s), 7.79-7.91(1H, m), 8.30-8.40(2H, m), 8.85-8.92(2H, m), 9.70-9.79(1H, m), 10.02-10.23(1H, m)(DMSO)	396
XA469/ XA470	(DMSO-d6):3.38-3.60(6H,m), 3.60-3.80(1H,m):3.80-4.00(5H,m), 4.80-4.97(1H,m), 6.85-7.00(1H,m), 7.09(1H,dd,J=2.4,11.4Hz), 7.13(1H,s), 7.95(1H,dd,J=6.9,8.7Hz), 8.46(2H,d,J=6.6Hz), 8.94(2H,d,J=6.3Hz), 9.80-10.00(1H,brd), 10.35-10.60(1H,brd).	396
XA472	3.36-4.00(6H, m), 3.46(3H, s), 3.94(3H, s), 4.94-5.02(1H, m), 6.96-7.01(1H, m), 7.05(1H, d, J=8.6 Hz), 7.14(1H, s), 7.49-7.58(1H, m), 8.44-8.50(2H, m), 8.52-8.64(1H, m), 8.96(2H, d, J=6.6 Hz), 10.49-10.60(1H, m)(DMSO)	396

XA480	2.78(1H, dd, J=10.0, 12.1 Hz), 3.18-3.27(3H, m), 3.59(3H, s), 3.64-3.74(2H, m), 3.86(3H, s), 4.37(1H, dd, J=2.4, 10.1 Hz), 6.67(1H, s), 6.89(1H, d, J=2.1 Hz), 6.99(1H, dd, J=1.7, 8.0 Hz), 7.50(1H, d, J=8.2 Hz), 7.82(2H, dd, J=1.5, 4.8 Hz), 8.71(2H, dd, J=1.8, 4.5 Hz)(CDCI3)	412
XA490 (2HCI)	3.35-3.94(6H, m), 3.49(3H, s), 4.71-4.80(1H, m), 7.02-7.11(1H, m), 7.18-7.28(2H, m), 7.98-8.10(1H, m), 8.31-8.48(2H, m), 8.87-8.97(2H, m), 9.79-9.92(1H, m), 10.18-10.39(1H, m) (DMSO)	380
XA501	(CDCl3):2.77(1H,dd,J=10.2,12.0Hz), 3.15-3.35(3H,m), 3.50-3.80(5H,m), 3.84(3H,s), 4.39(1H,d,J=7.8Hz), 6.67(1H,s), 6.78(1H,d,J=8.8Hz), 7.39(1H,dd,J=2.4,8.7Hz), 7.71(1H,d,J=2.3Hz), 7.82(2H,d,J=6.0Hz), 8.71(2H,d,J=6.0Hz).	456
XA510	(CDCl3): 1.98-2.05(4H, m), 2.85(1H, dd, J=12, 10.5Hz), 3.17-3.24(7H, m), 3.58(3H, s), 3.65-3.72(2H, m), 3.85(3H, s), 4.28(1H, dd, 10.5, 2.7Hz), 6.10(1H, d, J=2.1Hz), 6.18(1H, dd, J=8.7, 2.1Hz), 6.65(1H, s), 7.33(1H, d, J=8.4Hz), 7.83(2H, dd, J=4.5, 1.8Hz), 8.70(2H, dd, J=4.5, 1.5Hz).	447
XA511	(CDCI3):1.90-2.05(4H,m), 2.93(1H,t,J=12.0Hz), 3.15-3.40(7H,m), 3.59(3H,s), 3.65-3.85(5H,m), 4.11(1H,dd,J=2.1,10.2Hz), 6.49(1H,dd,J=3.0,9.0Hz), 6.66(1H,s), 7.83(2H,dd,J=1.8,4.5Hz), 8.70(2H,dd,J=1.5,4.5Hz).	447
XA516	(DMSO-d6):3.20-3.70(4H,m), 3.70(1H,m), 3.98(3H,s), 3.99(3H,s), 4.00(1H,m), 4.96(1H,d,J=10.2Hz), 7.01(1H,s), 7.03(2H,m), 8.26(2H,d,J=6.1Hz), 8.53(1H,s), 8.84(2H,d,J=6.1Hz), 10.25(1H,d,J=10.7Hz)	414
XA525	(DMSO-d6):3.30-3.50(2H,m), 3.48(3H,s), 3.55-3.78(2H,m), 3.78(3H,s), 3.96(2H,d,J=13.5Hz), 4.69(1H,t,J=10.4Hz), 7.06(1H,t,J=7.4Hz), 7.12(1H,s), 7.14(1H,d,J=7.4Hz), 7.31(1H,d,J=7.4Hz), 7.39(1H,t,J=7.4Hz), 7.59(2H,d,J=8.3Hz), 7.77(2H,d,J=8.3Hz), 8.43(2H,d,J=6.5Hz), 8.93(2H,d,J=6.5Hz), 9.89(1H,d,J=8.7Hz), 10.34(1H,s).	454
XA527	(DMSO-d6):3.40-4.10(9H,m), 3.81(3H,s), 4.69(1H,m), 7.05(1H,s), 7.05(2H,d,J=9.0Hz), 7.67(2H,d,J=9.0Hz), 7.75(4H,s), 8.27(2H,d,J=5.7Hz), 8.85(2H,d,J=5.7Hz), 9.75(1H,s), 10.04(1H,s).	454

	(DMSO-d6):3.40-3.60(2H,m), 3.47(3H,s), 3.68(2H,m), 3.95(2H,m),	
XA536	4.71(1H,t,J=9.9Hz), 7.16(1H,s), 7.33(2H,t,J=8.85Hz), 7.78(6H,m),	443
	8.50(2H,d,J=6.3Hz), 8.97(2H,d,J=6.3Hz), 10.02(1H,s), 10.50(1H,s).	
	3.52(s, 3H), 3.57-4.10(m, 6H), 5.57(m, 1H),	
XA543	7.02(s, 1H), 7.53-7.70(m, 2H), 8.06(d, J=7.2Hz, 2H), 8.21-8.34(m, 3H), 8.82(d, J=6.2Hz, 2H), 8.82(0, J=6.2Hz, 2H), 8.82(0, J=6.2Hz, 2H), 8.82(m, 3H), 8.82(m, 3H), 8.82(d, J=6.2Hz, 2H), 8.82(m, J=6.2Hz, 2Hz, 2H), 8.82(m, J=6.2Hz, 2Hz, 2Hz, 2Hz, 2Hz, 2Hz, 2Hz, 2Hz,	398
	J=6.3Hz, 2H), 9.88-9.92(m, 1H), 10.58-10.61(m, 1H)(DMSO d6)	
	3.41-3.59(2H, m), 3.49(3H, s), 3.68-3.76(2H, m), 3.97-4.02(2H, m), 4.78-4.89(1H, m),	
XA544	7.15(1H, s), 7.58-7.63(2H, m), 7.89-8.07(4H, m), 8.30(1H, s), 8.49(2H, d, J=6.3 Hz),	398
	8.95(2H, d, J=6.3 Hz), 10.17(1H, d, J=8.4 Hz), 10.57-10.70(1H, m)(DMSO-d6)	
	(CDCl3): 2.98(1H, dd, J=12.6, 10.8Hz), 3.17-3.28(5H, m), 3.58(3H, s), 3.62(1H, m),	
XA619	3.79(1H, m), 4.26(1H, dd, 10.5, 2.7Hz),	000
AAGIS	4.62(2H, m), 6.66(1H, s), 6.88(1H, t, J=7.5Hz), 7.16(1H, d, J=7.2Hz), 7.27(1H,	390
	m), 7.84(2H, d, J=6.0), 8.70(2H, dd, J=4.8, 1.2Hz).	
	3.33-3.41(4H, m), 3.42(3H, s), 3.47-3.87(4H, m), 6.84(1H, s), 7.44-7.49(5H, m), 7.99(2H,	
XA626	dd, J=1.5, 4.5 Hz), 8.69(2H, dd, J=1.4, 4.8 Hz)(DMSO-d6)	376
	3.44(3H, s),3.37-4.04(9H, m),4.67(1H,	
VA 0.40	d,J=9.6Hz),7.10(1H, s),7.45-7.55(3H,	
XA649	m),7.83(2H, d,J=6.0Hz),8.47(2H, d,J=6.6Hz),8.95(2H, d,J=6.6Hz),12.15(1H,	362
-	brs)(DMSO-d6) (CDCl3) :2.50-2.61(1H,m), 2.80-2.95(1H,m),	·
	3.05-3.20(1H,m), 3.25-3.40(1H,m), 3.50-3.60(1H,m), 3.57(3H,s),	
XA756	3.65-3.75(1H,m), 3.75-3.80(1H,m), 3.85(3H,s), 6.60-6.80(3H,m),	410
	7.47(1H,dd,J=7.2,8.4Hz),	
	7.82(2H,dd,J=1.5,4.5Hz), 8.71(2H,dd,J=1.5,4.5Hz).	
	(DMSO-d6) :2.54(3H,s), 3.40-3.79(3H,m), 3.46(3H,s), 3.80-4.10(6H,m),	
XA757/ XA758	4.83-5.10(1H,m), 6.90-7.05(1H,m), 7.08(1H,s), 7.13(1H,dd,J=2.7,11.4Hz),	410
	8.00-8.25(1H,brd), 8.37(2H,d,J=6.3Hz), 8.91(2H,d,J=6.6Hz), 11.80-12.20(1H,brd).	
******	2.55(s, 3H), 3.51(s, 3H), 3.67-3.82(m, 4H), 4.04-4.08(m, 2H), 5.64(m, 1H), 7.05(s, 1H),	
XA831	7.59-7.72(m, 3H), 8.06-8.11(m, 2H), 8.35(d, J=6.6Hz, 2H), 8.41(d, J=7.8Hz, 1H), 8.49 (d, J=7.8Hz, 1H), 8.40 (d, J=	412
	J=6.9Hz, 1H), 8.84(d, J=6.6Hz, 2H)(DMSO	
•	d6)	

(DMSO-66): 3.15-3.35(1H,m), 3.38-3.60(4H,m), 3.75-4.15(8H,m), 4.18-4.25(1H,m), 4.90-5.20(1H,m), 7.00-7.20(3H,m), 9.00(2H,d,y-6.3Hz). (CDCl3): 1.80-2.42(3H, m), 3.08-3.39(4H, m), 3.40-3.62(1H, m), 5.40-5.62(0.7H, m), 5.80-6.00(0.6H, m), 5.40-5.62(0.7H, m), 6.80-6.90(0.1H, m), 6.52-6.78(3H, m), 8.64-8.80(2H,m) 1.48(3H, s), 1.57(3H, s), 3.50(3H, s), 3.51-3.66(2H, m), 3.72-3.76(1H, m), 3.90(3H, s), 3.99(1H, d, J=13.4 Hz), 5.15-5.23(1H, m), 7.08-7.12(2H, m), 7.18(1H, d), J=8.6 Hz), 7.46-7.49(1H, m), 8.04-8.11(1H, m), 8.37-8.45(2H, m), 8.98-8.97(2H, m), 9.49-9.60(1H, m), 9.95-10.11(1H, m)(DMSO) 3.01 (1H, dd, J = 10.8, 12.9 Hz), 3.10-3.30 (3H, m), 3.50-3.75 (5H, m), 4.04 (1H, dd, J = 2.7, 10.8 Hz), 6.67 (1H, s), 7.20-7.40 (4H, m), 7.50 (1H, s), 7.80 (2H, dd, J = 1.5, 4.8 Hz), 8.71 (2H, dd, J = 1.5, 5.1 Hz) (CDCl3) 2.80 (1H, dd, J = 10.3, 12.2 Hz), 3.15-3.30 (3H, m), 3.50-3.80 (5H, m), 4.44 (1H, dd, J = 2.6, 10.3 Hz), 6.67 (1H, s), 7.10-7.20 (1H, m), 7.25-7.40 (1H, m), 7.58 (1H, dd, J = 1.0, 8.1 Hz), 7.73 (1H, dd, J = 1.6, 7.8 Hz), 7.81 (2H, dd, J = 1.6, 4.5 Hz), 7.81 (2H, dd, J = 1.6, 4.5 Hz), 7.81 (2H, dd, J = 1.6, 4.5 Hz), 8.71 (2H, dd, J = 1.6, 7.8 Hz), 7.81 (2H, dd, J = 1.6, 4.5 Hz), 8.71 (2H, dd, J = 1.5, 4.8 Hz) (CDCl3) 2.95-3.10 (1H, m), 3.10-3.35 (3H, m), 3.56 (3H, s), 3.60-3.70 (2H, dd, J = 1.8, 6.3 Hz), 8.71 (2H, dd, J = 1.8, 4.8 Hz) (CDCl3) 3.40 (3H, m), 3.45 (3H, s), 3.53-3.96 (3H, m), 4.68 (1H, t, J = 13.5Hz), 7.10 (1H, s), 7.60 (2H, d, J = 1.8, 8.3 Hz), 8.38 (1H, br s), 8.91 (1H, br s) (DMSO-d6) 3.40(3H, m), 3.46(3H, s), 3.62(1H, dd, J = 8.7 Hz), 4.86 (1H, t, J = 10.9 Hz), 3.22 (m, 3H), 3.56 (3H, s), 7.58 (2H, d, J = 8.6Hz), 7.83 (2H, d, J = 8.7 Hz), 6.68 (1H, t, J = 10.9 Hz), 3.22 (m, 3H), 3.56 (3H, s), 3.60 (2H, m), 4.03 (1H, d, J = 8.7 Hz), 6.68 (1H, s), 7.28 (1H, d, J = 8.2 Hz), 7.66 (1H, d, J = 8.7 Hz), 6.68 (1H, s), 7.28 (1H, d, J = 8.2 Hz), 7.66 (1H, d, J = 8.2 Hz), 7.66 (1H, d, J = 8.2 Hz), 7.66 (1H, d, J = 8.2 Hz), 7.46 (1H, d, J = 8.2 Hz), 7.61 (1H, s), 7.79 (2H, d, J = 5.6 Hz), 8.71 (2H, d		
(CDCI3): 13.80-2.42(3H, m), 3.08-3.39(4H, m), 3.40-3.62(1H, m), 3.65-4.23(6.8H, m), 4.63-4.90(0.6H, m), 5.40-5.62(0.7H, m), 5.80-6.00(0.1H, m), 6.52-6.78(3H, m), 6.90-7.2(1H, m), 7.68-7.90(2H, m), 8.64-8.80(2H, m) 1.48(3H, s), 1.57(3H, s), 3.50(3H, s), 3.51-3.66(2H, m), 7.08-7.12(2H, m), 7.18(1H, d, J=8.6 Hz), 7.46-7.49(1H, m), 8.04-8.11(1H, m), 8.37-8.45(2H, m), 8.89-8.97(2H, m), 9.95-10.11(1H, m)(DMSO) 3.01 (1H, dd, J = 10.8, 12.9 Hz), 3.10-3.30 (3H, m), 3.50-3.75 (5H, m), 4.04 (1H, dd, J = 2.7, 10.8 Hz), 6.67 (1H, s), 7.20-7.40 (4H, m), 7.50 (1H, s), 7.80 (2H, dd, J = 1.5, 4.8 Hz), 8.71 (2H, dd, J = 1.5, 5.1 Hz) (CDCI3) 2.80 (1H, dd, J = 10.3, 12.2 Hz), 3.15-3.30 (3H, m), 3.50-3.80 (5H, m), 4.44 (1H, dd, J = 2.6, 10.3 Hz), 6.67 (1H, s), 7.10-7.20 (1H, m), 7.25-7.40 (1H, m), 7.58 (1H, dd, J = 1.0, 8.1 Hz), 7.73 (1H, dd, J = 1.6, 7.8 Hz), 7.81 (2H, dd, J = 1.6, 4.5 Hz), 8.70 (2H, dd, J = 1.8, 6.3 Hz), 8.71 (2H, dd, J = 1.5, 4.8 Hz), 8.70 (2H, dd, J = 1.8, 6.3 Hz), 8.71 (2H, dd, J = 1.5, 4.8 Hz) (CDCI3) 2.96-3.10 (1H, m), 3.10-3.35 (3H, m), 3.56 (3H, s), 3.60-3.70 (2H, m), 3.80-4.05 (7H, m), 6.67 (1H, s), 7.80 (2H, dd, J = 1.8, 6.3 Hz), 8.71 (2H, dd, J = 1.5, 4.8 Hz) (CDCI3) 3.40 (3H, m), 3.45 (3H, s), 3.53-3.96 (3H, m), 4.68 (1H, t, J = 13.5Hz), 7.10 (1H, dd, J = 3.8 Hz), 8.38 (1H, br s), 10.31 (1H, br s) (DMSO-d6) 3.40 (3H, m), 3.46 (3H, s), 3.53-3.96 (3H, br), 3.60 (3H, s), 3.72 (1H, m), 3.92 (1H, t, J = 12.0, 13.2 Hz), 3.72 (1H, m), 3.92 (1H, t, J = 12.0, 13.2 Hz), 3.72 (1H, m), 3.92 (1H, t, J = 13.5 Hz), 7.80 (1H, d, J = 8.7 Hz), 7.80 (2H, d, J = 8.8 Hz), 7.80 (4H, d, J = 8.2 Hz), 7.61 (1H, br s) (DMSO-d6) 2.98 (1H, t, J = 10.9 Hz), 3.22 (m, 3H), 3.56 (3H, s), 3.60 (2H, m), 4.03 (1H, d, J = 8.7 Hz), 6.68 (1H, t, J = 10.9 Hz), 7.62 (H, d, J = 8.7 Hz), 6.68 (1H, t, J = 10.9 Hz), 7.61 (1H, t), 7.79 (2H, d) (1H, d, J = 8.2 Hz), 7.61 (1H, s), 7.79 (2H, d) (1H, d, J = 8.2 Hz), 7.61 (1H, s), 7.79 (2H, d) (1H, d, J = 8.2 Hz), 7.61 (1H, s), 7.79 (2H, d) (1H, d, J = 8.2 Hz), 7.61 (1H, s), 7.79 (2H, d) (1H, d,	4.18-4.25(1H,m), 4.90-5.20(1H,m), 7.00-7.20(3H,m), 7.30-7.55(6H,m), 8.50-8.70(3H,m), 9.00(2H,d,J=6.3Hz)	486
XA 1649 1649 1649 1649 1649 1649 1649 1649	(CDCl3):1.80-2.42(3H, m), 3.08-3.39(4H, m), 3.40-3.62(1H, m), 3.65-4.23(6.8H, m), 4.63-4.90(0.6H, m), 5.40-5.62(0.7H, m), 5.80-6.00(0.1H, m), 6.52-6.78(3H, m), 6.90-7.2(1H, m), 7.68-7.90(2H, m), 8.64-8.80(2H, m)	438
(3H, m), 3.50-3.75 (5H, m), 4.04 (1H, dd, J = 2.7, 10.8 Hz), 6.67 (1H, s), 7.20-7.40 (4H, m), 7.50 (1H, s), 7.80 (2H, dd, J = 1.5, 4.8 Hz), 8.71 (2H, dd, J = 1.5, 5.1 Hz) (CDCl3) 2.80 (1H, dd, J = 10.3, 12.2 Hz), 3.15-3.30 (3H, m), 3.50-3.80 (5H, m), 4.44 (1H, dd, J = 2.6, 10.3 Hz), 6.67 (1H, s), 7.10-7.20 (1H, m), 7.25-7.40 (1H, m), 7.58 (1H, dd, J = 1.0, 8.1 Hz), 7.73 (1H, dd, J = 1.6, 7.8 Hz), 7.81 (2H, dd, J = 1.6, 4.5 Hz) (CDCl3) 2.95-3.10 (1H, m), 3.10-3.35 (3H, m), 3.56 (3H, s), 3.60-3.70 (2H, m), 3.80-4.05 (7H, m), 6.67 (1H, s), 6.87 (1H, d, J = 8.1 Hz), 6.90-7.10 (2H, m), 7.80 (2H, dd, J = 1.8, 6.3 Hz), 8.71 (2H, dd, J = 1.5, 4.8 Hz) (CDCl3) 3.40 (3H, m), 3.45 (3H, s), 3.53-3.96 (3H, m), 4.68 (1H, t, J = 13.5Hz), 7.10 (1H, s), 7.60 (2H, d, J=8.3Hz), 7.76 (2H, d, J=8.3Hz), 8.38 (1H, br s), 10.31 (1H, br s) (DMSO-d6) 3.40 (3H, m), 3.46 (3H, s), 3.62 (1H, dd, J=12.0, 13.2Hz), 3.72 (1H, m), 3.92 (1H, t, J=15.5Hz), 4.68 (1H, t, J=10.1Hz), 7.18 (1H, s), 7.58 (2H, d, J=8.6Hz), 7.83 (2H, d, J=6.6Hz), 10.20 (1H, d, J=7.8Hz), 10.76 (1H, br s) (DMSO-d6) 2.98 (1H, t, J = 10.9 Hz), 3.22 (m, 3H), 3.56 (3H, s), 3.60 (2H, m), 4.03 (1H, d, J = 8.7 Hz), 6.68 (1H, s), 7.28 (1H, d, J = 8.2 Hz), 7.46 (1H, d, J = 8.2 Hz), 7.61 (1H, s), 7.79 (2H d)	3.51-3.66(2H, m), 3.72-3.76(1H, m), 3.90(3H, s), 3.99(1H, d, J=13.4 Hz), 5.15-5.23(1H, m), 7.08-7.12(2H, m), 7.18(1H, d, J=8.6 Hz), 7.46-7.49(1H, m), 8.04-8.11(1H, m), 8.37-8.45(2H, m), 8.89-8.97(2H, m), 9.49-9.60(1H, m), 9.95-10.11(1H, m)(DMSO)	406
XA 1974 (3H, m), 3.50-3.80 (5H, m), 4.44 (1H, dd, J = 2.6, 10.3 Hz), 6.67 (1H, s), 7.10-7.20 (1H, m), 7.25-7.40 (1H, m), 7.58 (1H, dd, J = 1.0, 8.1 Hz), 7.73 (1H, dd, J = 1.6, 7.8 Hz), 7.81 (2H, dd, J = 1.6, 4.5 Hz) (CDCI3) 2.95-3.10 (1H, m), 3.10-3.35 (3H, m), 3.56 (3H, s), 3.60-3.70 (2H, m), 3.80-4.05 (7H, m), 6.67 (1H, s), 6,87 (1H, d, J = 8.1 Hz), 6.90-7.10 (2H, m), 7.80 (2H, dd, J = 1.8, 6.3 Hz), 8.71 (2H, dd, J = 1.5, 4.8 Hz) (CDCI3) 3.40 (3H, m), 3.45 (3H, s), 3.53-3.96 (3H, m), 4.68 (1H, t, J = 13.5Hz), 7.10 (1H, s), 7.60 (2H, d, J=8.3Hz), 7.76 (2H, d, J=8.3Hz), 8.38 (1H, br s), 10.31 (1H, br s) (DMSO-d6) XA 1976 3.40(3H, m), 3.46(3H, s), 3.62(1H, dd, J=12.0, 13.2Hz), 3.72(1H, m), 3.92(1H, t, J=15.5Hz), 4.68(1H, t, J=10.1Hz), 7.18(1H, s), 7.58(2H, d, J=8.6Hz), 7.83(2H, d, J=8.6Hz), 8.57(2H, d, J=6.6Hz), 9.01(2H, d, J=6.6Hz), 10.20(1H, d, J=7.8Hz), 10.76(1H, br s) (DMSO-d6) XA 1978 XA 1978 (3H, s), 3.60 (2H, m), 4.03 (1H, d, J = 8.7 Hz), 6.68 (1H, s), 7.28 (1H, d, J = 8.2 Hz), 7.46 (1H, d, J = 8.2 Hz), 7.61 (1H, s), 7.79 (2H, d) 1978	3.01 (1H, dd, J = 10.8, 12.9 Hz), 3.10-3.30 (3H, m), 3.50-3.75 (5H, m), 4.04 (1H, dd, J = 2.7, 10.8 Hz), 6.67 (1H, s), 7.20-7.40 (4H, m), 7.50 (1H, s), 7.80 (2H, dd, J = 1.5, 4.8 Hz), 8.71 (2H, dd, J = 1.5, 5.1 Hz) (CDCl3)	382
XA 1975 (3H, s), 3.60-3.70 (2H, m), 3.80-4.05 (7H, m), 6.67 (1H, s), 6,87 (1H, d, J = 8.1 Hz), 6.90-7.10 (2H, m), 7.80 (2H, dd, J = 1.8, 6.3 Hz), 8.71 (2H, dd, J = 1.5, 4.8 Hz) (CDCI3) 3.40 (3H, m), 3.45 (3H, s), 3.53-3.96 (3H, m), 4.68 (1H, t, J = 13.5Hz), 7.10 (1H, s), 7.60 (2H, d, J=8.3Hz), 7.76 (2H, d, J=8.3Hz), 8.38 (1H, br s), 8.91 (1H, d, J=4.8Hz), 9.88 (1H, br s), 10.31 (1H, br s) (DMSO-d6) 3.40(3H, m), 3.46(3H, s), 3.62(1H, dd, J=12.0, 13.2Hz), 3.72(1H, m), 3.92(1H, t, J=15.5Hz), 4.68(1H, t, J=10.1Hz), 7.18(1H, s), 7.58(2H, d, J=8.6Hz), 7.83(2H, d, J=8.6Hz), 8.57(2H, d, J=6.6Hz), 9.01(2H, d, J=6.6Hz), 10.20(1H, d, J=7.8Hz), 10.76(1H, br s) (DMSO-d6) 2.98 (1H, t, J = 10.9 Hz), 3.22 (m, 3H), 3.56 (3H, s), 3.60 (2H, m), 4.03 (1H, d, J = 8.7 Hz), 6.68 (1H, s), 7.28 (1H, d, J = 8.2 Hz), 7.46 (1H, d, J = 8.2 Hz), 7.61 (1H, s), 7.79 (2H, d)	(3H, m), 3.50-3.80 (5H, m), 4.44 (1H, dd, J = 2.6, 10.3 Hz), 6.67 (1H, s), 7.10-7.20 (1H, m), 7.25-7.40 (1H, m), 7.58 (1H, dd, J = 1.0, 8.1 Hz), 7.73 (1H, dd, J = 1.6, 7.8 Hz), 7.81 (2H, dd, J = 1.6, 4.5 Hz), 8.70 (2H, dd, J = 1.6, 4.5 Hz) (CDCI3)	426
XA 1976 4.68 (1H, t, J = 13.5Hz), 7.10 (1H, s), 7.60 (2H, d, J=8.3Hz), 7.76 (2H, d, J=8.3Hz), 8.38 (1H, br s), 8.91 (1H, d, J=4.8Hz), 9.88 (1H, br s), 10.31 (1H, br s) (DMSO-d6) 3.40(3H, m), 3.46(3H, s), 3.62(1H, dd, J=12.0, 13.2Hz), 3.72(1H, m), 3.92(1H, t, J=15.5Hz), 4.68(1H, t, J=10.1Hz), 7.18(1H, s), 7.58(2H, d, J=8.6Hz), 7.83(2H, d, J=8.6Hz), 8.57(2H, d, J=6.6Hz), 9.01(2H, d, J=6.6Hz), 10.20(1H, d, J=7.8Hz), 10.76(1H, br s) (DMSO-d6) 2.98 (1H, t, J = 10.9 Hz), 3.22 (m, 3H), 3.56 (3H, s), 3.60 (2H, m), 4.03 (1H, d, J = 8.7 Hz), 6.68 (1H, s), 7.28 (1H, d, J = 8.2 Hz), 7.46 1978 (1H, d, J = 8.2 Hz), 7.61 (1H, s), 7.79 (2H, d)	(3H, s), 3.60-3.70 (2H, m), 3.80-4.05 (7H, m), 6.67 (1H, s), 6,87 (1H, d, J = 8.1 Hz), 6.90-7.10 (2H, m), 7.80 (2H, dd, J = 1.8, 6.3 Hz), 8.71 (2H, dd, J = 1.5, 4.8 Hz) (CDCI3)	407
J=12.0, 13.2Hz), 3.72(1H, m), 3.92(1H, t, J=15.5Hz), 4.68(1H, t, J=10.1Hz), 7.18(1H, s), 7.58(2H, d, J=8.6Hz), 7.83(2H, d, J=8.6Hz), 8.57(2H, d, J=6.6Hz), 9.01(2H, d, J=6.6Hz), 10.20(1H, d, J=7.8Hz), 10.76(1H, br s) (DMSO-d6) 2.98 (1H, t, J = 10.9 Hz), 3.22 (m, 3H), 3.56 (3H, s), 3.60 (2H, m), 4.03 (1H, d, J = 8.7 Hz), 6.68 (1H, s), 7.28 (1H, d, J = 8.2 Hz), 7.46 (1H, d, J = 8.2 Hz), 7.61 (1H, s), 7.79 (2H, d)	4.68 (1H, t, J = 13.5Hz), 7.10 (1H, s), 7.60 (2H, d, J=8.3Hz), 7.76 (2H, d, J=8.3Hz), 8.38 (1H, br s), 8.91 (1H, d, J=4.8Hz), 9.88 (1H, br s), 10.31 (1H, br s) (DMSO-d6)	382
2.98 (1H, t, J = 10.9 Hz), 3.22 (m, 3H), 3.56 (3H, s), 3.60 (2H, m), 4.03 (1H, d, J = 8.7 Hz), 6.68 (1H, s), 7.28 (1H, d, J = 8.2 Hz), 7.46 (1H, d, J = 8.2 Hz), 7.61 (1H, s), 7.79 (2H, d)	J=12.0, 13.2Hz), 3.72(1H, m), 3.92(1H, t, J=15.5Hz), 4.68(1H, t, J=10.1Hz), 7.18(1H, s), 7.58(2H, d, J=8.6Hz), 7.83(2H, d, J=8.6Hz), 8.57(2H, d, J=6.6Hz), 9.01(2H, d, J=6.6Hz), 10.20(1H, d, J=7.8Hz), 10.76(1H, br s) (DMSO-d6)	382
	(3H, s), 3.60 (2H, m), 4.03 (1H, d, J = 8.7 Hz), 6.68 (1H, s), 7.28 (1H, d, J = 8.2 Hz), 7.46 (1H, d, J = 8.2 Hz), 7.61 (1H, s), 7.79 (2H, d	

XA 1979	3.31 (1H, dd, J = 13.8, 8.9 Hz), 3.46 (3H, s), 3.85 (1H, dd, J = 13.8, 3.6 Hz), 4.10 (1H, d, J = 17.7 Hz), 4.19 (1H, d, J = 17.7 Hz), 4.91 (1H, dd, J = 8.9, 3.6 Hz), 6.11 (1H, s), 6.74 (1H, s), 7.32 (2H, d, J = 8.4 Hz), 7.42 (2H, d, J = 8.4 Hz), 7.79 (2H, dd, J = 4.8, 1.5 Hz), 8.74 (2H, dd, J = 4.8, 1.5 Hz) (CDCI3)	396
XA 1980	1.97 (4H, m), 3.26 (4H, m), 3.38 (2H, m), 3.45 (3H, s), 3.60 (2H, m), 3.80 (1H, d, J = 13.8 Hz), 3.92 (1H, d, J = 14.1 Hz), 4.48 (1H, t, J = 10.4 Hz), 6.65 (2H, d, J = 8.7 Hz), 7.16 (1H, s), 7.54 (2H, d, J = 8.7 Hz), 8.57 (2H, d, J = 6.6 Hz), 9.00 (2H, d, J = 6.6 Hz), 9.83 (1H, d, J = 9.3 Hz), 10.32 (1H, br s) (DMSO-d6)	417
XA 1981	3.21 (4H, m), 3.40 (2H, m), 3.46 (3H, s), 3.65 (2H, m), 3.78 (4H, m), 3.91 (2H, t, J = 13.7 Hz), 4.55 (1H, t, J = 10.1 Hz), 7.14 (2H, d, J = 8.7 Hz), 7.20 (1H, s), 7.64 (2H, d, J = 8.7 Hz), 8.60 (2H, d, J = 6.6 Hz), 9.02 (2H, d, J = 6.6 Hz), 9.93 (1H, d, J = 9.0 Hz), 10.47 (1H, br s) (DMSO-d6)	433
XA 1982	2.80 (3H, d, J = 4.5 Hz), 3.15 (4H, m), 3.44 (4H, m), 3.45 (3H, s), 3.60 (2H, m), 3.82 (1H, d, J = 13.5 Hz), 3.90 (3H, m), 4.54 (1H, t, J = 10.5), 7.10 (2H, d, J = 8.7 Hz), 7.17 (1H, s), 7.64 (2H, d, J = 8.7 Hz), 8.54 (2H, d, J = 6.3 Hz), 8.99 (2H, d, J = 6.3 Hz), 9.94 (1H, d, J = 8.7 Hz), 10.47 (1H, br s), 11.26 (1H, br s) (DMSO-d6)	446
XA 1983	1.27(3H, t, J=6.6 Hz), 3.46-4.14(8H, m), 4.70(1H, m), 7.11(1H, s), 7.60(2H, d, J=8.4 Hz), 7.76(2H, d, J=8.4 Hz), 8.32(2H, d, J=6 Hz), 8.89(2H, d, J=6.0 Hz), 9.87(1H, m), 10.23(1H, m), (DMSO-d6)	396
XA 1984	1.27(6H, dd, J=6.9, 6.9 Hz), 3.37-4.36(6H, m), 4.66-4.79(2H, m), 7.03(1H, s), 7.62(2H, d, J=8.7 Hz), 7.78(2H, d, J=8.7 Hz), 8.33(2H, d, J=6 Hz), 8.90(2H, d, J=6.0 Hz), 9.93(1H, m), 10.25(1H, m), (DMSO-d6)	410
XA 1985	1.40(3H, d, J=6.3 Hz), 3.44-4.04(5H, m), 3.48(3H, s), 4.69(1H, m), 7.08(1H, s), 7.60(2H, d, J=8.4 Hz), 7.79(2H, d, J=8.4 Hz), 8.33(2H, d, J=6.3 Hz), 8.90(2H, d, J=6.3 Hz), 9.83(1H, m), 10.00(1H, m), (DMSO-d6)	396

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XA 1986	1.57(6H, s), 3.50(3H, s), 3.51-3.93(4H, m), 4.98(1H, m), 7.11(1H, s), 7.60(2H, d, J=7.4 Hz), 7.94(2H, d, J=7.4 Hz), 8.41(2H, d, J=6.0 Hz), 8.93(2H, d, J=6.0 Hz), 9.88(1H, m), 10.05(1H, m), (DMSO-d6)	410
XA 1987	1.43(3H, d, J=6.6 Hz), 3.38-3.93(5H, m), 3.48(3H, s), 4.72(1H, m), 7.12(1H, s), 7.59(2H, d, J=8.4 Hz), 7.84(2H, d, J=8.4 Hz), 8.43(2H, d, J=6.6 Hz), 8.95(2H, d, J=6.6 Hz), 9.65(1H, m), 10.23(1H, m), (DMSO-d6)	396
ХА 1988	2.34 (1H, m), 2.42 (1H, m), 2.80 (3H, d, J = 5.6 Hz), 2.81 (3H, d, J = 5.6 Hz), 3.28 (1H, q, J = 8.8 Hz), 3.43 (2H, m), 3.45 (3H, s), 3.57 (5H, m), 3.80 (1H, d, J = 11.4 Hz), 3.96 (2H, m), 4.50 (1H, t, J = 10.4 Hz), 6.69 (2H, d, J = 8.4 Hz), 7.14 (1H, s), 7.55 (2H, d, J = 8.4 Hz), 8.47 (2H, d, J = 5.6 Hz), 8.96 (2H, d, J = 5.6 Hz), 9.75 (1H, d, J = 8.0 Hz), 10.16 (1H, br s), 11.40 (1H, br s) (DMSO-d6)	460
XA 1989	1.65 (2H, br s), 1.91 (4H, br s), 3.46 (9H, s), 3.70 (2H, m), 3.92 (2H, t, J = 16.6 Hz), 4.66 (1H, br s), 7.16 (1H, s), 7.85 (4H, br s), 8.50 (2H, d, J = 6.4 Hz), 8.97 (2H, d, J = 6.4 Hz), 10.01 (1H, br s), 10.59 (1H, br s) (DMSO-d6)	431
XA 1990	2.32 (1H, m), 2.42 (1H, m), 2.79 (3H, d, J = 5.2 Hz), 2.81 (3H, d, J = 5.2 Hz), 3.27 (1H, m), 3.39 (2H, m), 3.45 (3H, s), 3.59 (5H, m), 3.79 (1H, d, J = 13.3 Hz), 3.95 (2H, m), 4.50 (1H, t, J = 11.6 Hz), 6.69 (2H, d, J = 8.4 Hz), 7.16 (1H, s), 7.56 (2H, d, J = 8.4 Hz), 8.50 (2H, s), 8.98 (2H, d, J = 5.6 Hz), 9.78 (1H, br s), 10.19 (1H, br s), 11.44 (1H, br s) (DMSO-d6)	460
XA 1991	3.47 (3H, s), 3.61 (3H, m), 3.81 (3H, s), 4.02 (3H, m), 4.69 (1H, t, J = 10.6 Hz), 7.05 (2H, d, J = 8.8 Hz), 7.10 (1H, s), 7.67 (2H, d, J = 8.8 Hz), 7.77 (4H, s), 8.38 (2H, br s), 8.91 (2H, d, J = 5.2 Hz), 9.90 (1H, br s), 10.28 (1H, br s) (DMSO-d6)	454
XA 1992	1.26(3H, t, J=6.9 Hz), 1.41(3H, d, J=6.3 Hz), 3.43-4.06(7H, m), 4.74(1H, m), 7.09(1H, s), 7.58(2H, d, J=8.4 Hz), 7.84(2H, d, J=8.4 Hz), 8.32(2H, d, J=6.6 Hz), 8.90(2H, d, J=6.6 Hz), 9.90(1H, m), 10.03(1H, m), (DMSO-d6)	410
XA 1993	1.41(3H, t, J=6.3 Hz), 1.55(6H, dd, J=6.6, 6.6 Hz), 3.49-3.73(5H, m), 4.64(1H, m), 4.78(1H, m), 6.99(1H, s), 7.58(2H, d, J=8.7 Hz), 7.81(2H, d, J=8.7 Hz), 8.28(2H, d, J=6.3 Hz), 8.87(2H, d, J=6.3 Hz), 9.91(2H, m)(DMSO-d6)	424

XA 1994	1.27(3H, t, J=6.9 Hz), 1.55(3H, s), 1.60(3H, s), 3.42-4.14(6H, m), 5.04(1H, m), 7.13(1H, s), 7.60(2H, d, J=8.4 Hz), 7.91(2H, d, J=8.4 Hz), 8.32(2H, d, J=6.3 Hz), 8.89(2H, d, J=6.3 Hz), 9.80-9.84(2H, m)(DMSO-d6)	424
XA 1995	1.52(3H, d, J=6.6 Hz), 1.58(6H, s), 1.59(3H, d, J=6.6 Hz), 3.40-3.68(4H, m), 4.75(1H, m), 5.09(1H, m), 7.03(1H, s), 7.60(2H, d, J=8.4 Hz), 7.93(2H, d, J=8.4 Hz), 8.33(2H, d, J=6.0 Hz), 8.89(2H, d, J=6.0 Hz), 9.89(2H, m)(DMSO-d6)	438
XA 1996	1.29 (3H, t, J = 6.8 Hz), 3.47 (2H, br s), 3.66 (3H, m), 3.81 (3H, s), 3.83 (1H, m), 4.04 (2H, m), 4.71 (1H, d, J = 10.6 Hz), 7.05 (2H, d, J = 8.8 Hz), 7.12 (1H, s), 7.67 (2H, d, J = 8.8 Hz), 7.75 (2H, d, J = 8.4 Hz), 7.79 (2H, d, J = 8.4 Hz), 8.36 (2H, d, J = 6.4 Hz), 8.91 (2H, d, J = 6.4 Hz), 9.92 (1H, d, J = 8.8 Hz), 10.29 (1H, br s) (DMSO-d6)	468
XA 1997	1.56 (3H, d, J = 6.4 Hz), 1.58 (3H, d, J = 6.4 Hz), 3.47 (2H, br s), 3.60 (1H, m), 3.77 (2H, m), 3.81 (3H, s), 4.72 (3H, m), 7.05 (2H, d, J = 8.8 Hz), 7.06 (1H, s), 7.68 (2H, d, J = 8.8 Hz), 7.76 (2H, d, J = 8.4 Hz), 7.80 (2H, d, J = 8.4 Hz), 8.42 (2H, d, J = 6.4 Hz), 8.94 (2H, d, J = 6.4 Hz), 10.02 (1H, d, J = 9.6 Hz), 10.39 (1H, br s) (DMSO-d6)	482
XA 1998	1.24 (1H, m), 1.39 (4H, m), 1.72 (1H, m), 1.79 (4H, m), 2.55 (1H, m), 3.45 (3H, s), 4.00-3.45 (6H, m), 4.61 (1H, t, J = 11.2 Hz), 7.09 (1H, s), 7.35 (2H, d, J = 8.4 Hz), 7.62 (2H, d, J = 8.4 Hz), 8.37 (2H, d, J = 4.0 Hz), 8.90 (2H, d, J = 4.0 Hz), 9.75 (1H, d, J = 9.6 Hz), 10.17 (1H, br s), (DMSO-d6)	430
XA 1999	1.04 (1H, m), 1.17 (2H, m), 1.43 (2H, m), 1.60 (1H, m), 1.79 (4H, m), 2.96 (3H, br s), 3.45 (3H, s), 4.18-3.44 (6H, m), 4.62 (1H, br s), 7.13 (1H, s), 7.75 (4H, br s), 8.46 (1H, br s), 8.95 (1H, br s), 9.87 (1H, br s), 10.40 (1H, br s) (DMSO-d6)	459
XA 2000	1.40(3H, d, J=6.6 Hz), 3.44-4.04(5H, m), 3.48(3H, s), 4.72(1H, m), 7.05(1H, s), 7.61(2H, d, J=8.4 Hz), 7.78(2H, d, J=8.4 Hz), 8.29(2H, d, J=6.0 Hz), 8.90(2H, d, J=6.0 Hz), 9.78-10.00(2H, m), (DMSO-d6)	396

XA 2001	1.26(3H, t, J=6.9 Hz), 1.41(3H, d, J=6.0 Hz), 3.43-4.06(7H, m), 4.74(1H, m), 7.08(1H, s), 7.58(2H, d, J=8.4 Hz), 7.81(2H, d, J=8.4 Hz), 8.29(2H, d, J=6.3 Hz), 8.88(2H, d, J=6.3 Hz), 9.84-10.00(2H, m), (DMSO-d6)	410
XA 2002	1.41(3H, t, J=6.0 Hz), 1.56(6H, dd, J=6.6, 6.6 Hz), 3.49-3.73(5H, m), 4.62(1H, m), 4.78(1H, m), 7.00(1H, s), 7.59(2H, d, J=8.4 Hz), 7.81(2H, d, J=8.4 Hz), 8.30(2H, d, J=6.3 Hz), 8.88(2H, d, J=6.3 Hz), 9.91(2H, m)(DMSO-d6)	
XA 2003	3.03(4H, td, J=4.6Hz), 3.26(4H, t, J=4.5Hz), 3.48(3H, s), 6.65(1H, s), 7.10(2H, m), 7.20-7.45(5H, m), 7.65(2H, d, J=8.5Hz), 7.79(2H, d, J=6.3Hz), 8.71(2H, d, J=1.5, 4.8Hz)(CDCI3),	425
XA 2004	2.93 (1H, m), 3.20 (2H, m), 3.30 (3H, s), 3.36 (1H, d, J = 12.8 Hz), 3.46 (1H, t, J = 12.0 Hz), 3.73 (4H, m), 7.03 (1H, s), 7.33 (2H, m), 7.42 (3H, m), 8.16 (2H, d, J = 6.4 Hz), 8.86 (2H, d, J = 6.4 Hz), 9.61 (1H, d, J = 10.0 Hz), 9.95 (1H, d, J = 8.4 Hz) (DMSO-d6)	362
XA 2005	2.93 (1H, dd, J = 14.8, 8.4 Hz), 3.07 (1H, m), 3.19 (1H, m), 3.33 (3H, s), 3.41 (3H, s), 3.69 (1H, m), 3.80 (2H, d, J = 14.0 Hz), 6.96 (1H, br s), 7.39 (2H, d, J = 8.0 Hz), 7.49 (2H, d, J = 8.0 Hz), 8.00 (2H, br s), 8.77 (2H, br s), 9.24 (1H, s), 9.54 (1H, s) (DMSO-d6)	396
XA 2006	3.39 (2H, m), 3.46 (3H, s), 3.56 (2H, m), 3.85 (1H, d, J = 13.2 Hz), 3.93 (1H, d, J = 13.6 Hz), 4.55 (1H, t, J = 10.4 Hz), 6.94 (1H, br s), 7.13 (1H, s), 7.14 (4H, m), 7.30 (2H, m), 7.59 (2H, d, J = 8.0 Hz), 8.45 (2H, s), 8.95 (2H, s), 9.73 (1H, br s), 10.10 (1H, br s) (DMSO-d6)	508
XA 2007	1.39 (1H, m), 1.80 (8H, m), 2.18 (2H, d, J = 11.2 Hz), 2.76 (2H, t, J = 11.4 Hz), 3.90 (2H, m), 3.33 (1H, m), 3.40 (3H, m), 3.45 (3H, s), 3.58 (2H, m), 3.82 (1H, d, J = 13.3 Hz), 3.93 (3H, m), 4.53 (1H, t, J = 10.4 Hz), 7.09 (2H, d, J = 8.8 Hz), 7.11 (1H, s), 7.56 (2H, d, J = 8.8 Hz), 8.40 (2H, d, J = 6.0 Hz), 8.92 (2H, d, J = 6.0 Hz), 9.75 (1H, d, J = 8.8 Hz), 10.14 (1H, br s), 10.39 (1H, br s) (DMSO-d6)	514
XA 2008	2.82-2.90(1H, m), 3.01-3.05(4H, m), 3.22(3H, s), 3.44(3H, s), 3.58-3.66(2H, m), 4.08(1H, dd, J=1.2, 10.2Hz), 6.81(1H, s), 7.77(2H, d, J=7.2Hz), 7.92-7.98(4H, m), 8.69(2H, d, J=4.2Hz)(DMSO-d6)	426

XA 2009	1.21(3H, d, J=6.6 Hz), 3.17-3.45(4H, m), 3.52(3H, s), 4.02(1H, m), 4.69(1H, m), 7.20(1H, s), 7.54(2H, d, J=8.4 Hz), 7.70(2H, d, J=8.4 Hz), 8.26(2H, d, J=6.3 Hz), 8.88(2H, d, J=6.3 Hz), 9.90(1H, m), 10.16(1H, m), (DMSO-d6)	396
XA 2010	1.21(3H, d, J=6.0 Hz), 3.17-3.45(4H, m), 3.53(3H, s), 4.02(1H, m), 4.70(1H, m), 7.24(1H, s), 7.54(2H, d, J=8.7 Hz), 7.73(2H, d, J=8.7 Hz), 8.33(2H, d, J=5.7 Hz), 8.93(2H, d, J=5.7 Hz), 10.04(1H, m), 1037(1H, m), (DMSO-d6)	396
XA 2011	3.02 (1H, t, J = 11.9 Hz), 3.17 (6H, m), 3.55 (3H, s), 3.63 (2H, m), 3.86 (4H, m), 3.96 (1H, d, J = 10.2 Hz), 6.66 (1H, s), 6.92 (2H, d, J = 8.4 Hz), 7.35 (2H, d, J = 8.4 Hz), 7.80 (2H, d, J = 5.1 Hz), 8.70 (2H, d, J = 5.1 Hz) (CDCl3)	433
XA 2012	2.31 (3.6H, s), 3.16 (4H, t, J = 4.8 Hz), 3.44 (3H, s), 3.45 (4H, m), 3.75 (4H, t, J = 4.8 Hz), 3.86 (1H, d, J = 14.0 Hz), 3.92 (1H, d, J = 12.4 Hz), 4.56 (1H, d, J = 10.4 Hz), 6.95 (1H, s), 7.06 (2H, d, J = 8.8 Hz), 7.43 (2H, d, J = 8.8 Hz), 8.06 (2H, d, J = 6.0 Hz), 8.75 (2H, d, J = 6.0 Hz), 9.03 (1H, s), 9.33 (1H, d, J = 10.0 Hz) (DMSO-d6)	433
XA 2013	1.82 (4H, m), 1.97 (2H, m), 2.12 (2H, m), 2.77 (2H, t, J = 11.6 Hz), 3.01 (2H, m), 3.27 (1H, m), 3.40 (2H, m), 3.45 (3H, s), 3.49 (2H, m), 3.57 (1H, m), 3.63 (1H, m), 3.84 (1H, d, J = 13.6 Hz), 3.92 (3H, d, J = 12.8 Hz), 4.53 (1H, t, J = 11.2 Hz), 7.12 (2H, d, J = 8.4 Hz), 7.14 (1H, s), 7.58 (2H, d, J = 8.9 Hz), 8.49 (2H, d, J = 5.2 Hz), 8.97 (2H, d, J = 5.2 Hz), 9.82 (1H, br s), 10.24 (1H, br s), 11.12 (1H, br s) (DMSO-d6)	500
XA 2014	1.75(2H, m), 2.14(2H, m), 2.72(6H, d, J=4.5 Hz), 2.74-2.80(3H, m), 3.30-3.95(8H, m), 3.45(3H, s), 4.54(1H, m), 7.10(2H, d, J=9.0 Hz), 7.15(1H, s), 7.60(2H, d, J=9.0 Hz), 8.51(2H, d, J=6.6 Hz), 8.98(2H, d, J=6.6 Hz), 9.86(1H, m), 10.32(1H, m), 10.93(1H, m), (DMSO-d6)	474
XA 2015	1.68(2H, m), 2.09(2H, m), 3.16-3.90(10H, m), 3.45(3H, s), 4.60(1H, m), 7.13(1H, s), 7.45-7.71(4H, m), 8.45(2H, d, J=6.0 Hz), 8.94(2H, d, J=6.0 Hz), 9.83(1H, m), 10.22(1H, m) (DMSO-d6)	447

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XA 2016	1.91-2.03(2H, m), 3.09(1H, m), 3.28-3.57(7H, m), 3.40(3H, s), 4.41(2H, m), 6.58(2H, d, J= 8.7 Hz), 7.13(1H, s), 7.46(2H, d, J= 8.7 Hz), 8.44(2H, d, J=6.3 Hz), 8.94(2H, d, J=6.3 Hz), 9.61(1H, m), 9.89(1H, m) (DMSO-d6)	433
XA 2017	2.97 (6H, s), 3.45 (3H, s), 4.20-3.30 (6H, m), 4.53 (1H, t, J = 9.8 Hz), 6.69 (2H, br s), 7.14 (1H, s), 7.57 (2H, br s), 8.48 (2H, br s), 8.96 (2H, br s), 9.72 (1H, br s), 10.09 (1H, br s) (DMSO-d6)	1
XA 2018	3.18-3.22(1H, m), 3.44-3.80(15H, m), 4.51-4.55(1H, m), 5.11(2H, s), 7.04-7.07(3H, m), 7.32-7.39(5H, m), 7.52-7.55(2H, m), 8.33-8.35(2H, m), 8.82-8.87(2H, m), 9.65-9.75(2H, br)(DMSO-d6)	566
XA 2019	1.32(6H, d, J=6.8Hz), 3.04-3.88(18H, m), 4.52-4.55(1H, m), 7.09-7.12(3H, m), 7.62(2H, d, J=7.2Hz), 8.45(2H, d, J=4.2Hz), 8.94(2H, d, J=4.2Hz), 9.83-10.34(3H, br), 11.00-11.04(1H, br)(DMSO-d6)	474
XA 2020	1.32(6H, d, J=6.8Hz), 3.04-3.88(18H, m), 4.52-4.55(1H, m), 7.09-7.12(3H, m), 7.62(2H, d, J=7.2Hz), 8.45(2H, d, J=4.2Hz), 8.94(2H, d, J=4.2Hz), 9.83-10.34(3H, br), 11.00-11.04(1H, br)(DMSO-d6)	476
XA 2021	2.09(3H, s), 3.19-4.00(20H, m), 4.43-4.54(3H, m), 7.06-7.19(3H, m), 7.62(2H, d, J=7.2Hz), 8.44(2H, d, J=4.2Hz), 8.94(2H, d, J=4.2Hz), 9.82-9.85(1H, br), 10.26-10.30(1H, br), 11.30-11.40(1H, br)(DMSO-d6)	518
XA 2022	3.17-3.21(4H, m), 3.38-4.16(14H, m), 4.51-4.54(1H, m), 7.08-7.18(3H, m), 7.60(2H, d, J=7.2Hz), 8.43(2H, d, J=4.2Hz), 8.93(2H, d, J=4.2Hz), 9.26-9.34(2H, br), 9.81-84(1H, br), 10.25-10.30(1H, br)(DMSO-d6)	432
XA 2023	1.82(3H, m), 3.29(3H, m), 3.40-3.96(9H, m), 3.48(3H, s), 4.55(1H, m), 7.10(1H, s), 7.13(2H, d, J=8.4 Hz), 7.56(2H, d, J=8.4 Hz), 8.39(2H, d, J=6.0 Hz), 8.91(2H, d, J=6.0 Hz), 9.67(1H, m), 9.97(1H, m) (DMSO-d6)	445

XA 2024	1.89-2.03(2H, m), 2.95-3.07(5H, m), 3.29-3.83(5H, m), 3.40(3H, s), 4.40(1H, m), 4.94(1H, m), 6.49(2H, d, J= 8.4 Hz), 7.13(1H, s), 7.25(2H, d, J= 8.4 Hz), 7.95(2H, d, J=6.0 Hz), 8.69(2H, d, J=6.0 Hz) (DMSO-d6)	433
XA 2025	1.16(6H, d, J= 6.3 Hz), 2.28-2.36(2H, m), 2.97-3.21(6H, m), 3.54(3H, s), 3.55-3.62(4H, m), 3.95(1H, m), 6.66(1H, s), 6.93(2H, d, J= 8.7 Hz), 7.32(2H, d, J= 8.7 Hz), 7.80(2H, d, J=6.3 Hz), 8.70(2H, d, J=6.3 Hz) (CDCI3)	460
XA 2026	1.26(6H, d, J= 6.3 Hz), 2.42(2H, dd, J= 11.1, 11.1 Hz), 3.02(1H, dd, J= 12.3, 10.8 Hz), 3.17-3.22(3H, m), 3.45-3.63(4H, m), 3.55(3H, s), 3.81(1H, m), 3.95(1H, dd, J= 13.2, 2.1 Hz), 6.66(1H, s), 6.92(2H, d, J= 8.4 Hz), 7.34(2H, d, J= 8.4 Hz), 7.80(2H, d, J=6.0 Hz), 8.70(2H, d, J=6.0 Hz) (CDCI3)	461
XA 2027	2.91-3.09(5H, m), 3.26(3H, s), 3.46(3H, s), 3.69-3.73(2H, m), 4.07-4.11(1H, m), 6.81(1H, s), 7.64(2H, d, J=7.2Hz), 7.77(2H, d, J=7.2Hz), 7.94-8.02(6H, m), 8.68(1H, d, J=4.2Hz)(DMSO-d6)	502
XA 2028	3.28-3.32(4H, m), 3.46(3H, s), 3.86-3.91(2H, m), 4.59-4.61(1H, m), 6.90(1H, s), 7.77-8.06(10H, m), 8.70(2H, d, J=4.2Hz), 9.36-9.44(1H, br)(DMSO-d6)	449
XA 2029	3.08 (1H, dd, J = 12.4, 10.4 Hz), 3.25 (3H, m), 3.58 (3H, s), 3.68 (2H, m), 4.09 (1H, dd, J = 10.4, 2.4 Hz), 6.68 (1H, s), 7.29 (2H, d, J = 8.4 Hz), 7.54 (2H, d, J = 8.4 Hz), 7.56 (2H, d, J = 8.4 Hz), 7.59 (2H, d, J = 8.4 Hz), 7.81 (2H, dd, J = 4.4, 1.6 Hz), 8.71 (2H, dd, J = 4.4, 1.6 Hz) (CDCI3)	·508
XA 2030	3.08 (1H, dd, J = 12.4, 10.4 Hz), 3.27 (3H, m), 3.58 (3H, s), 3.70 (2H, m), 4.11 (1H, dd, J = 10.4, 2.4 Hz), 6.68 (1H, s), 7.57 (2H, d, J = 8.0 Hz), 7.63 (2H, d, J = 8.0 Hz), 7.70 (4H, s), 7.81 (2H, dd, J = 4.8, 1.2 Hz), 8.71 (2H, dd, J = 4.8, 1.2 Hz) (CDCI3)	492
XA 2031	1.45 (3H, t, J = 12.4 Hz), 3.08 (1H, dd, J = 12.4, 10.8 Hz), 3.24 (3H, m), 3.57 (3H, s), 3.67 (2H, m), 4.07 (1H, m), 4.09 (2H, q, J = 7.0 Hz), 6.67 (1H, s), 6.97 (2H, d, J = 8.4 Hz), 7.51 (2H, d, J = 8.4 Hz), 7.51 (2H, d, J = 8.4 Hz), 7.54 (2H, d, J = 8.4 Hz), 7.57 (2H, d, J = 8.4 Hz), 7.81 (2H, dd, J = 4.8, 1.2 Hz), 8.71 (2H, dd, J = 4.8, 1.2 Hz) (CDCI3)	468

XA 2032	1.94 (4H, m), 2.02 (1H, m), 2.21 (1H, m), 2.62 (4H, m), 2.91 (1H, m), 3.03 (1H, dd, J = 12.4, 10.4 Hz), 3.20 (4H, m), 3.33 (1H, m), 3.48 (2H, m), 3.54 (3H, s), 3.62 (2H, m), 3.91 (1H, dd, J = 10.4, 2.4 Hz), 6.55 (2H, d, J = 8.4 Hz), 6.66 (1H, s), 7.29 (2H, d, J = 8.4 Hz), 7.81 (2H, dd, J = 4.4, 0.8 Hz), 8.70 (2H, dd, J = 4.4, 0.8 Hz) (CDCI3)	468
XA 2033	2.29(3H, s), 3.06(4H, t, J=4.8Hz), 3.38(4H, t, J=4.8Hz), 3.51(3H, s), 5.70(1H, s), 6.67(1H, s), 7.24-7.29(5H, m), 7.83(2H, dd, J=1.6, 4.3Hz), 8.72(2H, dd, J=1.3, 4.5Hz)(CDCI3)	427
XA 2034	3.09 (1H, dd, J = 12.0, 10.8 Hz), 3.23 (3H, m), 3.57 (3H, s), 3.66 (2H, m), 3.82 (3H, s), 3.86 (3H, s), 4.06 (1H, dd, J = 10.8, 2.4 Hz), 6.58 (2H, m), 6.67 (1H, s), 7.24 (2H, m), 7.47 (2H, d, J = 8.0 Hz), 7.53 (2H, d, J = 8.0 Hz), 7.82 (2H, dd, J = 4.8, 1.2 Hz), 8.71 (2H, dd, J = 4.8, 1.2 Hz) (CDCI3)	484
XA 2035	3.08 (3H, dd, J = 12.4, 10.8 Hz), 3.25 (3H, m), 3.57 (3H, s), 3.67 (2H, m), 3.93 (3H, s), 3.96 (3H, s), 4.08 (1H, dd, J = 10.0, 2.0 Hz), 6.68 (1H, s), 6.95 (1H, d, J = 8.4 Hz), 7.11 (1H, d, J = 2.4 Hz), 7.16 (1H, dd, J = 8.4, 2.4 Hz), 7.51 (2H, d, J = 8.0 Hz), 7.58 (2H, d, J = 8.0 Hz), 7.81 (2H, dd, J = 4.8, 1.2 Hz), 8.71 (2H, dd, J = 4.8, 1.2 Hz) (CDCI3)	484
XA 2036	3.08 (1H, dd, J = 12.4, 10.8 Hz), 3.26 (3H, m), 3.57 (3H, s), 3.67 (2H, m), 4.09 (1H, dd, J = 10.0, 2.0 Hz), 6.68 (1H, s), 7.42 (2H, d, J = 8.4 Hz), 7.53 (4H, d, J = 8.4 Hz), 7.58 (2H, d, J = 8.4 Hz), 7.80 (2H, dd, J = 4.8, 1.6 Hz), 8.71 (2H, dd, J = 4.8, 1.6 Hz) (CDCI3)	458
XA 2037	3.09 (1H, dd, J = 12.4, 10.8 Hz), 3.25 (3H, m), 3.58 (3H, s), 3.69 (2H, m), 4.11 (1H, dd, J = 10.4, 2.4 Hz), 6.68 (1H, s), 7.28 (2H, m), 7.44 (2H, d, J = 8.0 Hz), 7.51 (3H, m), 8.81 (2H, dd, J = 4.0, 1.2 Hz), 8.72 (2H, dd, J = 4.0, 1.2 Hz) (CDCI3)	492
XA 2038	3.07 (1H, dd, J = 12.3, 11.0 Hz), 3.26 (3H, m), 3.57 (3H, s), 3.67 (2H, m), 4.10 (1H, dd, J = 10.2, 2.1 Hz), 6.68 (1H, s), 7.42 (1H, dd, J = 8.1, 2.2 Hz), 7.55 (5H, m), 7.68 (1H, d, J = 2.2 Hz), 7.80 (2H, dd, J = 4.8, 1.3 Hz), 8.71 (2H, dd, J = 4.8, 1.3 Hz) (CDCI3)	492

XA 2039	3.06 (1H, dd, J = 12.0, 10.8 Hz), 3.24 (3H, m), 3.58 (3H, s), 3.67 (2H, m), 4.13 (1H, dd, J = 10.4, 2.4 Hz), 6.68 (1H, s), 7.61 (2H, d, J = 8.4 Hz), 7.80 (2H, d, J = 4.4 Hz), 8.15 (2H, d, J = 8.4 Hz), 8.71 (2H, d, J = 4.4 Hz), 8.77 (1H, s) (CDCI3)	416
XA 2040	3.04-3.26(4H, m), 3.57(3H, s), 3.66-3.71(2H, m), 4.07(1H, m), 5.12(2H, s), 6.68(1H, s), 7.06(2H, d, J= 8.7 Hz), 7.40-7.59(11H, m), 7.81(2H, d, J=6.0 Hz), 8.71(2H, d, J=6.0 Hz) (CDCI3)	530
XA 2041	0.38(2H, m), 0.67(2H, m), 1.32(1H, m), 3.09(1H, dd, J=12.6, 11.1 Hz), 3.22-3.28(3H, m), 3.58(3H, s), 3.67-3.71(2H, m), 3.86(2H, d, J= 6.9 Hz), 4.08(1H, m), 6.68(1H, s), 7.06(2H, d, J= 9.0 Hz), 7.49-7.60(6H, m), 7.82(2H, d, J=6.0 Hz), 8.72(2H, d, J=6.0 Hz) (CDCI3)	494
XA 2042	1.37(6H, d, J= 6.0 Hz), 3.08(1H, dd, J=12.3, 11.1 Hz), 3.20-3.28(3H, m), 3.57(3H, s), 3.65-3.70(2H, m), 4.06(1H, m), 4.59(1H, m), 6.67(1H, s), 7.06(2H, d, J= 9.0 Hz), 7.48-7.59(6H, m), 7.81(2H, d, J=6.0 Hz), 8.71(2H, d, J=6.0 Hz) (CDCl3)	482
XA 2043	0.99(3H, t, J= 7.5 Hz), 1.40-1.85(4H, m), 3.05-3.30(4H, m), 3.57(3H, s), 3.65-3.70(2H, m), 4.00-4.10(3H, m), 6.67(1H, s), 6.97(2H, d, J= 8.7 Hz), 7.50-7.56(6H, m), 7.81(2H, d, J=6.0 Hz), 8.71(2H, d, J=6.0 Hz) (CDCI3)	496
XA 2044	1.66(1H, br.s), 2.52(3H, s), 3.05(1H, dd, J=10.5, 12.6Hz), 3.20-3.26(3H, m), 3.57(3H, s), 3.62-3.72(2H, m), 4.07(1H, dd, J=2.1, 10.5Hz), 6.67(1H, s), 7.33(2H, d, J=8.4Hz), 7.50-7.61(6H, m), 7.81(2H, dd, J=1.6, 4.3Hz), 8.70(2H, dd, J=1.3, 4.5Hz)(CDCI3)	469
XA 2045	1.72(1H, br.s), 2.40(3H, s), 2.98-3.26(5H, m), 3.57(3H, s), 3.57-3.67(1H, m), 4.07(1H, dd, J=2.1, 10.5Hz), 6.67(1H, s), 7.24(2H, d, J=8.1Hz), 7.49-7.52(4H, m), 7.60(2H, d, J=8.1Hz), 7.81(2H, dd, J=1.6, 4.3Hz), 8.70(2H, dd, J=1.3, 4.5Hz)(CDCI3)	437
XA 2046	1.36(9H, s), 1.72(1H, br.s), 3.06(1H, dd, J=10.5, 12.4Hz), 3.20-3.28(3H, m), 3.57(3H, s), 3.57-3.67(2H, m), 4.07(1H, dd, J=2.1, 10.5Hz), 6.67(1H, s), 7.24(2H, d, J=8.1Hz), 7.43-7.56(6H, m), 7.81(2H, dd, J=1.6, 4.3Hz), 8.71(2H, dd, J=1.3, 4.5Hz)(CDCI3)	479

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XA 2047	1.29(6H, d, J=6.9Hz), 1.73(1H, br.s), 2.96(1H, m), 3.06(1H, dd, J=10.5, 12.4Hz), 3.21-3.29(3H, m), 3.57(3H, s), 3.62-3.71(2H, m), 4.07(1H, dd, J=2.1, 10.5Hz), 6.67(1H, s), 7.31(2H, d, J=8.1Hz), 7.45-7.54(4H, m), 7.63(2H, d, J=8.1Hz), 7.81(2H, dd, J=1.6, 4.3Hz), 8.71(2H, dd, J=1.3, 4.5Hz), (CDCI3)	465
XA 2048	1.68(2H, br.s), 2.98(1H, dd, J=10.5, 12.6Hz), 3.20-3.27(2H, m), 3.56(3H, s), 3.64-3.74(1H, m), 4.04(1H, dd, J=3.3, 11.1Hz), 4.80(3H, s), 6.66(1H, s), 6.72(2H, d, J=8.5Hz), 7.49-7.52(4H, m), 7.63(2H, d, J=8.1Hz), 7.81(2H, dd, J=1.6, 4.3Hz), 8.70(2H, dd, J=1.3, 4.5Hz)(DMSO-d6)	438
XA 2049	2.67 (3H, s), 3.06 (1H, dd, J = 12.4, 10.8 Hz), 3.25 (3H, m), 3.57 (3H, s), 3.62 (2H, m), 4.12 (1H, dd, J = 10.0, 2.0 Hz), 6.68 (1H, s), 7.59 (2H, d, J = 8.0 Hz), 7.80 (1H, dd, J = 4.8, 1.2 Hz), 8.09 (1H, d, J = 8.0 Hz), 8.71 (1H, dd, J = 4.8, 1.2 Hz) (CDCI3)	430
XA 2050	3.05(1H, m), 3.30-3.48(3H, m), 3.64(3H, s), 4.08-4.22(2H, m), 4.68(1H, m), 5.15(1H, d, J= 12.3 Hz), 5.21(1H, d, J= 12.6 Hz), 6.63(1H, s), 7.21(2H, d, J= 8.4 Hz), 7.28-7.39(7H, m), 7.59(2H, d, J=6.3 Hz), 8.68(2H, d, J=6.3 Hz) (CDCI3)	560
XA 2051	2.88-3.34(6H, m), 3.67(3H, s), 4.56(1H, dd, J= 9.9, 3.3 Hz), 6.62(1H, s), 7.19(2H, d, J= 10.8 Hz), 7.36(2H, d, J= 10.8 Hz), 7.58(2H, dd, J=4.5, 1.5 Hz), 8.67(2H, dd, J=4.5, 1.5 Hz) (CDCI3)	426
XA 2052	3.04(1H, m), 3.29-3.48(3H, m), 3.64(3H, s), 4.10-4.15(2H, m), 4.68(1H, m), 5.15(1H, d, J= 12.3 Hz), 5.21(1H, d, J= 12.6 Hz), 6.63(1H, s), 7.21(2H, d, J= 8.1 Hz), 7.32-7.39(7H, m), 7.59(2H, d, J=6.0 Hz), 8.68(2H, d, J=6.0 Hz) (CDCI3)	560
XA 2053	3.01(1H, m), 3.29-3.41(3H, m), 3.66(3H, s), 4.05-4.13(2H, m), 4.67(1H, m), 6.64(1H, s), 7.23(2H, d, J= 8.4 Hz), 7.41(2H, d, J= 8.4 Hz), 7.60(2H, dd, J=4.5, 1.5 Hz), 8.69(2H, dd, J=4.5, 1.5 Hz) (CDCI3)	527
XA 2054	2.28(3H, s), 3.07(4H, m), 3.59(4H, m), 3.73(3H, s), 5.78(1H, s), 6.70(1H, s), 6.98(1H, m), 7.40(1H, m), 7.60-7.66(2H, m), 7.81(2H, dd, J=1.6, 4.3Hz), 8.72(2H, dd, J=1.3, 4.5Hz)(CDCI3)	445

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XA 2055	2.31(3H, s), 3.19(4H, m), 3.46(4H, m), 3.54(3H, s), 5.79(1H, s), 6.69(1H, s), 7.18-7.23(1H, m), 7.79(2H, d, J=5.4Hz), 7.79-7.87(2H, m), 8.54(1H, d, J=5.2Hz), 8.72(2H, d, J=4.5Hz)(CDCI3)	428
XB13	1.16-1,28(1H, m), 1.50-1.64(1H, m), 1.70-1.82(2H, m), 1.90-2.01(1H, m), 2.58(2H, d, J=7.3 Hz), 2.64-2.72(1H, m), 2.89-2.97(1H, m), 3.28(3H, s), 3.57-3.67(2H, m), 6.93(1H, s), 7.20-7.35(5H, m), 8.26(2H, d, J=5.7 Hz), 8.87(2H, d, J=5.9 Hz)(DMSO-d6)	
XB16	1.75-2.16(4H, m), 2.96-3.08(3H, m, 3.55(3H, s), 3.69-3.79(2H, m), 6.66(1H, s), 7.26-7.40(5H, m), 7.81(2H, d, J = 6.0 Hz), 8.70(2H, d, J = 6.0 Hz) (CDCI3)	347
XB17	1.76-1.99(5H, m), 2.97-3.10(2H, m), 3.75(1H, d, J=12.4 Hz), 6.81(1H, s), 7.18-7.24(2H, m), 7.28-7.35(1H, m), 7.47(1H, t, J=7.1 Hz), 7.98(2H, d, J=5.8 Hz), 8.68(2H, d, J=5.8 Hz)(DMSO-d6)	365
XB19	1.86-2.14(4H, m), 2.94-3.03(3H, m), 3.55(3H, s), 3.68-3.75(2H, m), 6.66(1H, s), 7.05(2H, m), 7.23(2H, m), 7.80(2H, d, J = 6.3 Hz), 8.70(2H, d, J = 6.3 Hz)(CDCI3)	365
XB33	1.75-2.08(4H, m), 2.80(1H, m), 3.03(1H, m), 3.42(3H, s), 3.77(2H, m), 3.85(3H, s), 6.65(1H, s), 6.89-7.00(2H, m), 7.22-7.28(2H, m), 7.82(2H, d, J = 6.0 Hz), 8.70(2H, d, J = 6.0 Hz) (CDCI3)	377
XB35	1.73-1.83(4H, m), 2.90-3.02(3H, m), 3.42(3H, s), 3.67-3.81(2H, m), 3.74(3H, s), 6.80(1H, s), 6.91(2H, d, J=8.7 Hz), 7.27(2H, d, J=8.5 Hz), 7.97(2H, d, J=5.9 Hz), 8.69(2H, d, J=5.7 Hz)(DMSO-d6)	377
XB43	1.69-1.90(7H, m), 1.94-2.00(1H, m), 2.59-2.68(4H, m), 2.92-3.02(3H, m), 3.43(3H, s), 3.69-3.80(4H, m), 6.59(3H, s), 6.79(1H; s), 7.29-7.36(4H, m), 7.96(2H, d, J=5.9 Hz), 8.68(2H, d, J=5.1 Hz)(DMSO-d6)	430
XB46	(CDCI3): 1.95-2.09(3H, m), 2.39(1H, m), 3.15(1H, m), 3.45(1H, dd, J=12.9, 10.8Hz), 3.57(3H, s), 3.61-3.72(2H, m), 4.08(1H, m), 6.67(1H, s), 7.32(1H, m), 7.58-7.60(2H, m), 7.74(1H, d, J=7.8Hz), 7.80(2H, dd, J=4.5, 1.5Hz), 8.69(2H, dd, J=4.5, 1.5Hz).	388
XB47	(CDCI3): 1.90-2.06(3H, m), 2.36(1H, m), 3.14(1H, m), 3.42(1H, m), 3.57(3H, s), 3.61-3.71(2H, m), 4.06(1H, m), 6.68(1H, s), 7.09(1H, m), 7.28(1H, m), 7.68(1H, dd, J=8.8, 5.1Hz), 7.79(2H, d, J=4.7Hz), 8.69(2H, d, J=5.9Hz).	406

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XB48	7.56-7.62(2H, m), 7.74(1H, d, J=13.8 Hz), 7.80(2H, dd, J=1.8, 4.5 Hz), 8.70(2H, dd, J=1.8, 4.8 Hz)(CDCl3)	J (
XB49	1.91-2.09(3H, m), 2.37-2.42(1H, m), 3.12-3.19(1H, m), 3.45(1H, dd, J=10.8, 12.9 Hz), 3.57(3H, s), 3.60-3.72(2H, m), 4.08(1H d, J=11.1 Hz), 6.67(1H, s), 7.30-7.35(1H, m), 7.54-7.62(2H, m), 7.75(1H, d, J=8.1 Hz), 7.80(2H, dd, J=1.5, 4.5 Hz), 8.70(2H, dd, J=1.8, 4.5 Hz)(CDCI3)	1
XB50	1.59-1.67(1H, m), 1.72-1.81(1H, m), 2.08(1H, dt, J=3.4, 12.7 Hz), 2.23-2.40(1H, m), 3.06-3.14(1H, m), 3.41-3.54(2H, m), 3.42(3H, s), 3.93(1H, d, J=14.0 Hz), 7.02(1H s), 7.24-7.29(1H, m), 7.34-7.39(2H, m), 7.56-7.59(2H, m), 8.55(2H, d, J=6.6 Hz), 8.98(2H, d, J=6.5 Hz)(DMSO-d6)	, 363
XB80	2.21-2.36(4H, m), 3.19-3.31(2H, m), 3.46(3H, s), 3.88(2H, d, J=13.2 Hz), 6.86(1H, s), 7.38-7.42(1H, m), 7.46-7.51(2H, m), 7.58-7.64(2H, m), 8.01(2H, d, J=5.1 Hz), 8.70(2H, d, J=5.1 Hz)(DMSO-d6)	372
XB122	1.44(2H, m), 1.75-1.83(3H, m), 2.63(2H, d, J = 6.9 Hz), 2.90(2H, m), 3.51(3H, s), 3.64(2H, m), 6.65(1H, s), 7.17-7.34(5H, m), 7.80(2H, d, J = 6.3 Hz), 8.70(2H, d, J = 6.3 Hz) (CDCI3)	361
XB123	1.44-2.16(5H, m), 2.86-2.97(2H, m), 3.49(3H, s), 3.62(1H, m), 3.72(1H, m), 4.48(1H, d, J = 7.2 Hz), 6.64(1H, s), 7.07(2H, m), 7.32(2H, m), 7.79(2H, d, J = 6.3 Hz), 8.69(2H, d, J = 6.3 Hz) (CDCI3)	395
XB124	1.38-1.60(3H, m), 1.78(1H, m), 2.16(1H, m), 2.79-2.94(2H, m), 3.20(3H, s), 3.49(3H, s), 3.59(1H, m), 3.69(1H, m), 3.88(1H, d, J = 7.5 Hz, 1H), 6.64(1H, s), 7.08(2H, m), 7.25(2H, m), 7.79(2H, d, J = 6.0 Hz), 8.70(2H, d, J = 6.0 Hz) (CDCI3)	409
XB127	7.23-7.29(3H, m), 7.34(2H, m), 7.84(2H, d, J = 6.0 Hz), 8.72(2H, d, J = 6.0 Hz) (CDCI3)	347
XB130	7.03(2H, m), 2.78(1H, m), 3.09(2H, m), 3.57(3H, s), 3.79(2H, m), 6.69(1H, s), 7.03(2H, m), 7.23(2H, m), 7.84(2H, d, J = 5.4 Hz), 8.72(2H, br s) (CDCl3)	365
XB134	1.78-1.95(4H, m), 2.80-2.91(1H, m), 2.96-3.09(2H, m), 3.45(3H, s), 3.81(2H, d, J=13.1 Hz), 6.80(1H, s), 7.33(1H, dd, J=2.0, 8.3 Hz), 7.56-7.60(2H, m), 7.99(2H, dd, J=1.6, 4.5 Hz), 8.69(2H, dd, J=1.5, 4.5 Hz)(DMSO-d6)	415
XB127 XB130	2.79-2.94(2H, m), 3.20(3H, s), 3.49(3H, s), 3.59(1H, m), 3.69(1H, m), 3.88(1H, d, J = 7.5 Hz, 1H), 6.64(1H, s), 7.08(2H, m), 7.25(2H, m), 7.79(2H, d, J = 6.0 Hz), 8.70(2H, d, J = 6.0 Hz) (CDCI3) 1.87-2.06(4H, m), 2.79(1H, m), 3.10(2H, m), 3.57(3H, s), 3.78(2H, m), 6.68(1H, s), 7.23-7.29(3H, m), 7.34(2H, m), 7.84(2H, d, J = 6.0 Hz), 8.72(2H, d, J = 6.0 Hz) (CDCI3) 1.81-2.03(4H, m), 2.78(1H, m), 3.09(2H, m), 3.57(3H, s), 3.79(2H, m), 6.69(1H, s), 7.03(2H, m), 7.23(2H, m), 7.84(2H, d, J = 5.4 Hz), 8.72(2H, br s) (CDCI3) 1.78-1.95(4H, m), 2.80-2.91(1H, m), 2.96-3.09(2H, m), 3.45(3H, s), 3.81(2H, d, J = 13.1 Hz), 6.80(1H, s), 7.33(1H, dd, J = 2.0, 8.3 Hz), 7.56-7.60(2H, m), 7.99(2H, dd, J = 1.6, 4.5 Hz), 8.69(2H, dd, J = 1.5, 4.5)	347

	14 00 0 00/4H m) 0 00 0 07/011 \	T
XB145	1.82-2.02(4H, m), 3.09-3.27(3H, m), 3.57(3H, s), 3.79(2H, m), 3.86(3H, s), 6.67(1H, s), 6.89-6.99(2H, m), 7.21-7.26(2H, m), 7.84(2H, d, J = 6.0 Hz), 8.72(2H, d, J = 6.0 Hz) (CDCI3)	377
XB157	1.85-2.07(2H,m), 2.17-2.30(2H,m), 2.91-3.10(1H,m), 3.10-3.24(2H,m), 3.57(3H,s), 3.71-3.88(2H,m), 6.69(1H,s), 6.99-7.06(1H,m), 7.21(1H,dd,J=2.1,8.7Hz), 7.45(1H,s), 7.49-7.65(1H,m), 7.83(2H,dd,J=1.8,4.5Hz), 8.72(2H,dd,J=1.2,4.8Hz)(CDCI3)	405
XB158	2.22-2.32(4H, m), 3.22(2H, m), 3.37(1H, m), 3.58(3H, s), 3.82(2H, m, 6.71(1H, s), 7.10(1H, m), 7.29(1H, m), 7.67(1H, m), 7.83(2H, d, J = 6.3 Hz), 8.72(2H, d, J = 6.3 Hz) (CDCI3)	406
XB159	2.19-2.26(4H, m), 3.21(2H, m), 3.35(1H, m), 3.59(3H, s), 3.82(2H, m), 6.70(1H, s), 6.95(1H, dt, J = 9.0, 2.1 Hz), 7.13(1H, dd, J = 9.0, 2.1 Hz), 7.71(1H, m), 7.85(2H, d, J = 6.3 Hz), 8.72(2H, d, J = 6.3 Hz) (CDCI3)	405
XB160	2.13-2.34(2H,m), 2.34-2.43(2H,m), 3.10-3.38(3H,m), 3.57(3H,s), 3.68-3.83(2H,m), 6.69(1H,s), 7.29-7.40(2H,m), 7.46-7.59(1H,m), 7.64-7.78(1H,m), 7.80-7.78(2H,m), 8.72(2H,d,J=6.0Hz)(CDCI3)	388
XB161	2.19(2H, m), 2.38(2H, m), 3.18(2H, m), 3.39(1H, m), 3.58(3H, s), 3.80(2H, m), 6.70(1H, s), 7.39(1H, m), 7.50(1H, m), 7.83(2H, d, J = 6.0 Hz), 7.89(1H, d, J = 7.2 Hz), 8.01(1H, d, J = 7.8 Hz), 8.73(2H, d, J = 6.0 Hz) (CDCI3)	404
XB162	1.96(2H, m), 2.88(2H, m), 3.15(2H, m), 3.60(3H, s), 3.85(2H, m), 4.63(1H, m), 6.73(1H, s), 7.13-7.23(3H, m), 7.46(1H, d, J = 7.5 Hz), 7.84(2H, d, J = 6.3 Hz), 8.73(2H, d, J = 6.3 Hz)(CDCI3)	420
XB164	1.64(2H, m), 2.23(2H, m), 3.13(2H, m), 3.50(1H, m), 3.53(3H, s), 3.68(2H, m), 6.58(2H, m), 6.68(1H, s), 6.91(2H, m), 7.81(2H, d, J = 6.0 Hz), 8.72(2H, d, J = 6.0 Hz) (CDCI3)	380
XB165	1.91-1.99(4H, m), 2.84(3H, s), 3.07(2H, m), 3.55(3H, s), 3.77(2H, m), 3.84(1H, m), 6.69(1H, s), 6.75-6.87(3H, m), 7.27(2H, m), 7.82(2H, d, J = 6.3 Hz), 8.72(2H, d, J = 6.3 Hz) (CDCI3)	376
XB168	1.52(2H, m), 1.79(3H, s), 1.96(2H, m), 3.09(2H, m), 3.42(3H, s), 3.64(2H, m), 4.86(1H, m), 6.63(1H, s), 7.09-7.19(4H, m), 7.74(2H, d, J = 6.0 Hz), 8.70(2H, d, J = 6.0 Hz) (CDCI3)	422

XB169	(6.0 Hz), 8.71(2H, d, J = 6.0 Hz), (CDCI3)	363
XB201	2.20-2.31(4H, m), 3.20-3.29(2H, m), 3.46(3H, s), 3.87(2H, d, J=13.8 Hz), 6.86(1H, s), 7.29-7.35(2H, m), 7.64-7.69(2H, m), 8.01(2H, dd, J=1.5, 4.5 Hz), 8.70(2H, dd, J=1.5, 4.5 Hz)(DMSO-d6)	390
XB227	2.16-2.25(2H, m), 2.48-2.58(2H, m), 3.14-3.21(2H, m), 3.40(3H, s), 3.41-3.50(2H, m), 6.79(1H, s), 7.28-7.33(1H, m), 7.39-7.46(4H, m), 7.97(2H, dd, J=1.5, 4.5 Hz), 8.68(2H, dd, J=1.5, 4.5 Hz)(DMSO-d6)	389
XB256	1.77-1.85(8H, m), 2.10(1H, m), 2.51(4H, m), 2.97-3.02(3H, m), 3.58(3H, s), 3.55(3H, s), 3.62(2H, s), 3.74(1H, m), 6.66(1H, s), 7.16(2H, d, J=7.8Hz), 7.32(1H, d, J=7.8Hz), 7.80(2H, dd, J=1.5, 4.8Hz), 8.70(2H, dd, J=1.5, 4.8Hz)(CDCI3)	430
XB257	1.77-1.85(8H, m), 2.10(1H, m), 2.51(4H, m), 2.97-3.02(3H, m), 3.58(3H, s), 3.55(3H, s), 3.62(2H, s), 3.74(1H, m), 6.66(1H, s), 7.16(2H, d, J=7.8Hz), 7.32(1H, d, J=7.8Hz), 7.80(2H, dd, J=1.5, 4.8Hz), 8.70(2H, dd, J=1.5, 4.8Hz)(CDCI3)	430
XB258	1.86 (4H, m), 1.99 (4H, m), 3.03 (5H, m), 3.35 (4H, m), 3.43 (3H, s), 3.73 (2H, m), 4.30 (2H, s), 6.81 (1H, s), 7.43 (2H, d, J = 8.1 Hz), 7.69 (2H, d, J = 8.1 Hz), 7.97 (2H, d, J = 6.0 Hz), 8.69 (2H, d, J = 6.0 Hz), 11.01 (1H, br s) (DMSO-d6)	429
XB259	1.75 (1H, m), 1.89 (3H, m), 1.97 (3H, m), 2.13 (1H, d, J = 13.6 Hz), 3.02 (3H, m), 3.46 (2H, t, J = 7.0 Hz), 3.55 (3H, s), 3.66 (2H, t, J = 7.0 Hz), 3.75 (2H, m), 6.66 (1H, s), 7.30 (2H, d, J = 8.0 Hz), 7.52 (2H, d, J = 8.0 Hz), 7.80 (2H, dd, J = 6.0, 1.2 Hz), 8.71 (2H, dd, J = 6.0, 1.2 Hz)	443
XB260	1.77-1.86(8H, m), 2.94-3.06(5H, m), 3.43(3H, s), 3.73-3.78(2H, m), 4.28-4.31(2H, m), 6.81(1H, s), 7.44(2H, d, J=7.3Hz), 7.57(2H, d, J=7.3Hz), 7.96(2H, d, J=4.2Hz), 8.63(2H, d, J=4.2Hz), 10.75-10.80(1H, br)(DMSO-d6)	430
XB261	1.45-1.59(6H, m), 1.73-1.94(4H, m), 2.10-2.15(4H, m), 2.98-3.05(3H, m), 3.49(2H, m), 3.55(3H, s), 3.74-3.77(2H, m), 6.65(1H, s), 7.22(2H, d, J=8.4 Hz), 7.33(2H, d, J=8.4 Hz), 7.80(2H, d, J=6.0 Hz), 8.70(2H, d, J=6.0 Hz)(CDCI3)	444

XB262	J=8.4 Hz), 7.33(2H, d, J=8.4 Hz), 7.81(2H, d J=6.0 Hz), 8.71(2H, d, J=6.0 Hz)(CDCl3)	472
XB263	J=8.4 Hz), 7.58(2H, d, J=8.4 Hz), 8.21(2H, d, J=6.0 Hz), 8.82(2H, d, J=6.0 Hz)(DMSO-d6)	
XB264	0.99(3H, t, J=7.2Hz), 1.20-1.24(6H, m), 1.80-1.93(7H, m), 2.10(1H, m), 2.50-2.55(2H, m), 2.97-3.00(3H, m), 3.55(3H, s), 3.60(2H, s), 3.69-3.74(2H, m), 6.65(1H, s), 7.18(2H, d, J=8.4 Hz), 7.34(2H, d, J=8.4 Hz), 7.80(2H, d, J=6.0 Hz), 8.70(2H, d, J=6.0 Hz)(CDCl3)	486
XB265	1.02(6H, d, J=6.6Hz), 1.23-1.28(5H, m), 1.72-2.15(9H, m), 2.51(1H, m), 2.97-3.08(4H, m), 3.55(3H, s), 3.70(2H, s), 3.74-3.78(2H, m), 6.65(1H, s), 7.18(2H, d, J=7.8 Hz), 7.34(2H, d, J=7.8 Hz), 7.81(2H, d, J=6.0 Hz), 8.70(2H, d, J=6.0 Hz)(CDCl3)	500
XB266	1.77-1.87(4H, m), 2.44(1H, m), 2.80(6H, s), 2.99-3.09(4H, m), 3.42(3H, s), 3.62-3.79(6H, m), 4.42(3H, m), 6.95(1H, s), 7.45(2H, d, J=8.1 Hz), 7.58(2H, d, J=8.1 Hz), 8.29(2H, d, J=6.0 Hz), 8.86(2H, d, J=6.0 Hz)(DMSO-d6)	473
XB267	1.85-1.88(4H, m), 2.81(1H, m), 2.99-3.07(2H, m), 3.44(3H, s), 3.79-3.84(2H, m), 6.82(1H, s), 7.29(2H, d, J=8.4 Hz), 7.51(2H, d, J=8.4 Hz), 8.01(2H, d, J=6.0 Hz), 8.70(2H, d, J=6.0 Hz)(DMSO-d6)	425
XB268	1.83-1.99(4H, m), 2.83(1H, m), 2.98-3.06(2H, m), 3.45(3H, s), 3.79-3.84(2H, m), 6.82(1H, s), 7.29-7.43(3H, m), 7.53(1H, s), 8.01(2H, d, J=6.0 Hz), 8.70(2H, d, J=6.0 Hz)(DMSO-d6)	425
XB269	1.74-1.96(8H, m), 2.51(1H, m), 2.65-3.01(2H, m), 3.04-3.18(4H, m), 3.44(3H, s), 3.77-3.81(2H, m), 6.49(2H, d, J=8.4 Hz), 6.80(1H, s), 7.09(2H, d, J=8.4 Hz), 8.00(2H, dd, J=4.5, 1.8 Hz), 8.69(2H, dd, J=4.5, 1.8 Hz)(DMSO-d6)	416
XB270	1.83-1.99(8H, m), 2.72(1H, m), 2.97-3.07(2H, m), 3.19-3.23(4H, m), 3.45(3H, s), 3.78-3.83(2H, m), 6.38(1H, d, J=7.8 Hz) 6.44(1H, s), 6.53(1H, d, J=7.5 Hz), 6.81(1H, s), 7.09(1H, dd, J=7.8, 7.8 Hz), 8.00(2H, d, J=5.4 Hz), 8.70(2H, d, J=5.7 Hz)(DMSO-d6)	416

XB271	7.58-7.63(1H, m), 8.00(2H, d, J=4.2Hz) 8.69(2H, d, J=4.2Hz), 10.90(1H brs)(DMSO-d6)	404
XB272	8.00(2H, d, J=4.2Hz), 8.70(2H, d, J=4.2Hz)(DMSO-d6)	430
XB273	1.47-1.57(2H, m), 2.00-2.07(2H, m), 2.71(6H, s), 3.04-3.12(2H, m), 3.37-3.42(4H, m), 3.67-3.71(2H, m), 4.87(1H, d, J=8.2Hz), 6.56-6.65(4H, m), 6.79(1H, s), 7.99(2H, d, J=4.2Hz), 8.69(2H, d, J=4.2Hz)(DMSO-d6)	405
XB274	1.51-1.61(2H, m), 2.01-2.07(2H, m), 3.08-3.16(2H, m), 3.43(3H, s), 3.50-3.53(1H, m), 3.67(3H, s), 3.70-3.73(2H, m), 5.56(1H, d, J=8.2Hz), 6.09-6.24(3H, m), 6.78(1H, s), 6.96(1H, dd, J=7.2Hz, 7.3Hz), 7.99(2H, d, J=4.2Hz), 8.69(2H, d, J=4.2Hz)(DMSO-d6)	
XB275	1.48-1.59(2H, m), 2.00-2.07(2H, m), 3.06-3.13(2H, m), 3.40(3H, s), 3.44-3.46(1H, m), 3.64(3H, s), 3.66-3.71(2H, m), 5.07(1H, d, J=8.2Hz), 6.59(2H, d, J=7.2Hz), 6.70(2H, d, J=7.2Hz), 6.79(1H, s), 7.98(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	392
XB276	1.57-1.68(2H, m), 2.03-2.07(2H, m), 3.05-3.09(2H, m), 3.41(3H, s), 3.51-3.77(6H, m), 4.57(1H, d, J=8.2Hz), 6.53-6.58(1H, m), 6.66-6.69(1H, m), 6.74-6.82(3H, m), 7.99(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	392
XB277	1.78-1.92(4H, m), 2.94-3.07(5H, m), 3.41-3.86(10H, m), 6.88-6.92(1H, m), 7.04(1H, s), 7.21-7.24(2H, m), 7.39-7.44(1H, m), 8.48(2H, d, J=4.2Hz), 8.95(2H, d, J=4.2Hz)(DMSO-d6)	406
XB278	1.68-2.08(4H, m), 2.90-2.96(2H, m), 3.15(3H, s), 3.38(3H, s), 3.81-4.04(7H, m), 7.03(1H, s), 7.13(2H, d, J=7.2Hz), 7.81(2H, d, J=7.2Hz), 8.45(2H, d, J=4.2Hz), 8.94(2H, d, J=4.2Hz)(DMSO-d6)	406
}	1.76-1.85(4H, m), 2.65(3H, s), 2.85-2.94(2H, m), 3.41-3.42(1H, m), 3.44(3H, s), 3.74-3.79(2H, m), 4.02(3H, s), 6.78(1H, s), 6.83-6.99(4H, m), 7.97(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	406

	14.00 4.00(41)	
XB280	8.97(2H, d, J=4.2Hz)(DMSO-d6)	
XB281	1.69-1.88(3H, m), 1.92-2.00(1H, m), 2.92-3.06(3H, m), 3.42(3H, s), 3.63-3.88(2H, m), 6.79(1H, s), 7.33(2H, d, J=8.4 Hz), 7.54(2H, d, J=8.4 Hz), 7.96(2H, d, J=5.7 Hz), 8.68(2H, d, J=6.0 Hz)(DMSO-d6)	425
XB282	2.51-2.60(4H, m), 3.47(3H, s), 3.65-3.68(4H, m), 6.54(1H, s), 8.00(2H, d, J=4.2Hz), 8.70(1H, d, J=4.2Hz)(DMSO-d6)	285
XB283	1.71-1.82(4H, m), 2.40-2.49(2H, m), 2.50-2.53(4H, m), 2.86-2.94(3H, m), 3.06-3.09(4H, m), 3.41(3H, s), 3.50-3.68(4H, m), 4.43-4.46(1H, m), 6.78(1H, s), 6.89(2H, d, J=7.2Hz), 7.17(2H, d, J=7.2Hz), 7.95(2H, d, J=4.2Hz), 8.67(2H, d, J=4.2Hz)(DMSO-d6)	475
XB284	1.71-1.93(4H, m), 2.86(6H, s), 2.88-2.97(3H, m), 3.41(3H, s), 3.65-3.75(2H, m), 6.73(2H, d, J=7.2Hz), 6.78(1H, s), 7.15(2H, d, J=7.2Hz), 7.96(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	390
XB285	1.72-1.83(4H, m), 2.89-2.96(3H, m), 3.05-3.09(4H, m), 3.42(3H, s), 3.71-3.75(4H, m), 6.78(1H, s), 6.91(2H, d, J=7.2Hz), 7.20(2H, d, J=7.2Hz), 7.96(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	432
XB286	1.52-1.91(10H, m), 2.86-2.94(3H, m), 3.07-3.10(4H, m), 3.41(3H, s), 3.66-3.75(2H, m), 6.78(1H, s), 6.89(2H, d, J=7.2Hz), 7.16(2H, d, J=7.2Hz), 7.95(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	430
XB287	1.64-1.88(4H, m), 2.21(3H, s), 2.42-2.45(4H, m), 2.89-2.94(3H, m), 3.07-3.11(4H, m), 3.41(3H, s), 3.69-3.75(2H, m), 6.78(1H, s), 6.90(2H, d, J=7.2Hz), 7.18(2H, d, J=7.2Hz), 7.96(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	445
XB288	1.43-1.47(2H, m), 1.71-1.90(6H, m), 2.19(6H, s), 2.58-2.66(2H, m), 2.87-2.95(2H, m), 2.87-2.98(3H, m), 3.30-3.32(1H, m), 3.41(3H, s), 3.64-3.75(4H, m), 6.78(1H, s), 6.90(2H, d, J=7.2Hz), 7.16(2H, d, J=7.2Hz), 7.96(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	473

XB289	1.72-1.94(4H, m), 2.92-2.99(3H, m), 3.08-3.11(4H, m), 3.41(3H, s), 3.52-3.56(4H, m), 3.66-3.75(2H, m), 5.11(2H, s), 6.78(1H, s), 6.93(2H, d, J=7.2Hz), 7.20(2H, d, J=7.2Hz), 7.28-7.39(5H, m), 7.95(2H, d, J=4.2Hz), 8.69(2H, d, J=4.2Hz)(DMSO-d6)	565
XB290	1.53-1.63(2H, m), 1.85-1.89(2H, m), 2.14(3H, s), 2.31-2.46(8H, m), 2.86-2.94(2H, m), 3.34-3.35(1H, m), 3.39(3H, s), 3.70-3.74(2H, m), 6.79(1H, s), 7.98(2H, d, J=4.2Hz), 8.69(2H, d, J=4.2Hz)(DMSO-d6)	369
XB291	1.52-1.63(2H, m), 1.85-1.90(2H, m), 2.34-2.42(11H, m), 2.86-2.94(2H, m), 3.39(3H, s), 3.45-3.50(2H, m), 3.70-3.74(2H, m), 4.38-4.40(1H, m), 6.80(1H, s), 7.98(2H, d, J=4.2Hz), 8.69(2H, d, J=4.2Hz)(DMSO-d6)	399
XB292	1.71-1.83(4H, m), 2.81-3.00(11H, m), 3.28-3.30(1H, m), 3.41(3H, s), 3.66-3.75(2H, m), 6.78(1H, s), 6.89(2H, d, J=7.2Hz), 7.17(2H, d, J=7.2Hz), 7.96(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	431
XB293	1.43-1.53(2H, m), 1.93-1.98(3H, m), 2.63-2.66(1H, m), 2.92-3.00(2H, m), 3.39(3H, s), 3.62-3.79(7H, m), 6.78(1H, s), 6.88-6.97(2H, m), 7.18-7.22(1H, m), 7.35(1H, d, J=7.3Hz), 7.98(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	406
XB294	1.42-1.53(2H, m), 1.96-2.08(3H, m), 2.61-2.67(1H, m), 2.91-2.99(2H, m), 3.39(3H, s), 3.62-3.80(7H, m), 6.77(1H, s), 6.86(2H, d, J=7.2Hz), 7.25(2H, d, J=7.2Hz), 7.97(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	406
XB295	1.81-1.91(2H, m), 2.61-2.20(2H, m), 2.96-3.17(6H, m), 3.41-3.47(5H, m), 3.74-3.86(4H, m), 6.90-7.03(3H, m), 7.21-7.29(2H, m), 8.44(2H, d, J=4.2Hz), 8.93(2H, d, J=4.2Hz), 9.30-9.38(2H, br)(DMSO-d6)	420
XB296	1.80-1.91(2H, m), 2.07-2.21(2H, m), 2.96-3.11(6H, m), 3.34-3.41(5H, m), 3.69-3.86(4H, m), 6.91(2H, d, J=7.2Hz), 7.05(1H, s), 7.20(2H, d, J=7.2Hz), 8.49(2H, d, J=4.2Hz), 8.96(2H, d, J=4.2Hz), 9.44-9.50(2H, br)(DMSO-d6)	420

	4.44.4.54(011)	
XB297	1.41-1.51(2H, m), 1.91-1.96(3H, m), 2.61-2.65(1H, m), 2.86(6H, s), 2.91-2.98(2H, m), 3.38(3H, s), 3.61-3.67(4H, m), 6.70(2H, d, J=7.2Hz), 6.77(1H, s), 7.20(2H, d, J=7.2Hz), 7.97(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	419
XB298	2.04(2H, d, J=13.1Hz), 2.34(3H, s), 2.53(2H, m), 2.91(2H, m), 3.55(3H, s), 3.70(2H, d, J=13.1Hz), 4.27(1H, m), 6.08(1H, s), 6.86(1H, s), 7.36-7.48(5H, m), 7.80(2H, dd, J=1.6, 4.3Hz), 8.69(2H, dd, J=1.3, 4.5Hz)(CDCI3)	426
XB299	2.06(2H, d, J=13.1Hz), 2.22(2H, m), 2.99(2H, m), 3.13(1H, m), 3.54(3H, s), 3.70(2H, d, J=13.1Hz), 6.68(1H, s), 7.25(1H, s), 7.44-7.48(2H, m), 7.64-7.67(3H, m), 7.78(2H, dd, J=1.6, 4.3Hz), 8.69(2H, dd, J=1.3, 4.5Hz)(CDCI3)	413
XB300	1.75-1.85(4H, m), 2.97-3.10(5H, m), 3.43(3H, s), 3.71-3.76(2H, m), 3.88-3.93(2H, m), 6.70(1H, dd, J=7.2, 7.3Hz), 6.79(1H, s), 7.02-7.06(2H, m), 7.15-7.23(3H, m), 7.31-7.35(2H, m), 7.97(2H, d, J=4.2Hz), 8.69(2H, d, J=4.2Hz)(DMSO-d6)	464
XB301	1.09-1.34(5H, m), 1.57-1.88(9H, m), 2.78-2.93(3H, m), 3.08-3.18(1H, m), 3.41(3H, s), 3.62-3.74(2H, m), 5.27(1H, d, J=8.2Hz), 6.52(2H, d, J=7.2Hz), 6.79(1H, s), 7.01(2H, d, J=7.2Hz), 7.96(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	444
XB302	1.10-1.16(1H, m), 1.32-1.46(4H, m), 1.64-1.82(9H, m), 2.68(3H, s), 2.82-2.93(3H, m), 3.41(3H, s), 3.54-3.74(3H, m), 6.72(2H, d, J=7.2Hz), 6.78(1H, s), 7.12(2H, d, J=7.2Hz), 7.95(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	458

No.	NMR	MS[M+1]
YA0262	(DMSO-d6): 3.47(3H, s), 3.48-3.66(4H, m), 3.89-4.02(2H, m), 4.98(1H, m), 7.06(1H, s), 7.35-7.59(3H, m), 7.99(1H, dd, J=7.2, 6.9Hz), 8.25(1H, dd, J=5.4, 1.2Hz), 9.01(1H, d, J=5.1Hz), 9.31(1H, s), 9.84(1H, m), 10.19(1H, m).	367
YA0263	(CDCl3):3.01(1H,dd,J=10.5,12.4Hz), 3.10-3.35(3H,m), 3.57(3H,s), 3.55-3.65(2H,m), 4.05(1H,dd,J=2.4,10.4Hz), 7.00-7.10(1H,m), 7.30(1H,s), 7.22(2H,m), 7.30-7.42(2H,m), 8.15(1H,dd,J=1.3,5.2Hz), 8.86(1H,d,J=5.2Hz), 9.27(1H,d,J=1.0Hz).	367

YA0264	2.83(1H, dd, J=11.0, 11.9 Hz), 2.93(1H, s), 2.99-3.10(3H, m), 3.45(3H, s), 3.61-3.69(2H, m), 3.95(1H, dd, J=2.1, 10.3 Hz), 6.97(1H, s), 7.19(2H, t, J=8.8 Hz), 7.48-7.56(2H, m), 8.17(1H, dd, J=1.0, 5.0 Hz), 8.99(1H, d, J=5.1 Hz), 9.29(1H, d, J=1.0 Hz)(DMSO-d6)	367
YA0264 (HCI)	3.39-3.47(2H, m), 3.45(3H, s), 3.55-3.66(2H, m), 3.86-3.96(2H, m), 4.64-4.71(1H, m), 7.05(1H, s), 7.36(2H, t, J=8.7 Hz), 7.77-7.81(2H, m), 8.23(1H, dd, J=1.2, 5.1 Hz), 9.02(1H, d, J=5.1 Hz), 9.32(1H, d, J=1.2 Hz), 9.79(1H, d, J=10.2 Hz), 10.13-10.28(1H, m)(DMSO-d6)	367
YA0267	(CDCl3):2.81(1H,dd,J=10.5,12.6Hz), 3.15-3.40(3H,m), 3.50-3.65(4H,m),3.65-3.80(1H,m), 4.51(1H,dd,J=2.7,10.5Hz), 7.20-7.45(4H,m), 7.74(1H,dd,J=1.5,7.5Hz), 8.15-8.20(1H,m), 8.85(1H,d,J=5.1Hz), 9.27(1H,s).	383
YA0268	(CDCl3):3.00(1H,dd,J=10.5,12.6Hz), 3.10-3.35(3H,m), 3.50-3.70(5H,m), 4.03(1H,dd,J=2.4,10.5Hz), 7.32(4H,m), 7.50(1H,s), 8.15(1H,dd,J=1.2,5.1Hz), 8.87(1H,d,J=5.1Hz), 9.27(1H,d,J=1.5Hz).	383
YA0269	3.40-3.50(2H, m), 3.45(3H, s), 3.53-3.65(2H, m), 3.87-3.97(2H, m), 4.68(1H, t, J=10.2 Hz), 7.05(1H, s), 7.59(2H, d, J=11.1 Hz), 7.75(2H, d, J=11.1 Hz), 8.22(1H, dd, J=1.5, 5.4 Hz), 9.02(1H, d, J=5.1 Hz), 9.31(1H, s), 9.83(1H, d, J=9.6 Hz), 10.11-10.25(1H, m)(DMSO-d6)	383
YA0274	(DMSO-d6):3.45(3H,s), 3.40-3.70(4H,m), 3.92(2H,t,J=14.1Hz), 4.67(1H,br s), 7.06(1H,s), 7.68(2H,d,J=10.0Hz), 7.72(2H,d,J=10.0Hz), 8.22(1H,d,J=4.8Hz), 9.03(1H,d,J=4.8Hz), 9.31(1H,s), 9.88(1H,br s), 10.22(1H,br s).	427
YA0289	3.38-3.57(4H, m), 3.35(3H,s), 3.89(3H,s), 3.91-3.97(2H, m), 4.84-4.94(1H, m), 7.06(1H, s), 7.08-7.15(1H, m), 7.18(1H, d, J=8.4 Hz), 7.41-7.49(1H, m), 7.68(1H, d, J=7.6 Hz), 8.25(1H, d, J=4.9 Hz), 9.04(1H, d, J=5.1 Hz), 9.32(1H, s)(DMSO)	379
YA0290	(DMSO-d6):3.40-3.75(7H,m), 3.92(2H,t,J=13.2Hz), 4.64(1H,t,J=9.1Hz), 7.00-7.10(2H,m), 7.23(1H,d,J=7.6Hz), 7.35(1H,s), 7.42(1H,t, J=7.8Hz), 8.23(1H,d,J=5.6Hz), 9.02(1H,d,J=5.2Hz), 9.32(1H,s), 9.65-9.80(1H,brd), 9.90-10.15(1H,brd).	379
YA0291	(DMSO-d6): 3.42(3H, s), 3.36-3.58(4H, m), 3.79(3H, s), 3.83-3.95(2H, m), 4.61(1H, m), 7.05(1H, s), 7.07(2H, d, J=8.1Hz), 7.60(2H, d, J=8.7Hz), 8.22(1H, dd, J=5.1, 1.2Hz), 9.02(1H, d, J=5.4Hz), 9.31(1H, s), 9.58-9.74(2H, m).	379

YA0294	1.31(3H, t, J=6.8 Hz), 3.44-3.59(2H, m), 3.48(3H, s), 3.87-3.97(2H, m), 4.09-4.20(2H, m), 4.80-4.91(1H, m), 7.06(1H, s), 7.09-7.17(2H, m), 7.44(1H, t, J=7.4 Hz), 7.64(1H, d, J=7.5 Hz), 8.23(1H, d, J=5.3 Hz), 9.03(1H, d, J=5.2 Hz), 9.32(1H, s), 9.49-9.60(2H, m)(DMSO-d6)	
YA0304	(DMSO-d6):3.45(3H,s), 3.64(3H,m), 3.93(3H,m), 4.78(1H,t,J=9.6Hz), 7.13(1H,s), 7.97(2H,d,J=8.7Hz), 8.01(2H,d,J=8.7Hz), 8.43(2H,d,J=6.2Hz), 8.93(2H,d,J=6.2Hz), 10.12(1H,s), 10.70(1H,s).	374
YA0331	(CDCl3):2.00(4H,m), 3.05(1H,t,J=11.7Hz), 3.18-3.30(3H,m), 3.29(4H,m), 3.56(3H,s), 3.62(2H,m), 3.91(1H,d,J=8.4Hz), 6.57(2H,d,J=8.7Hz), 7.31(3H,m), 8.17(1H,dd,J=1.2,5.1Hz), 8.85(1H,d,J=5.1Hz), 9.27(1H,d,J=1.2Hz).	418
YA0337	(CDCl3):3.02(1H,dd,J=10.8,12.6Hz), 3.18(8H,m), 3.56(3H,s), 3.61(1H,t,J=9.0Hz), 3.87(4H,m), 3.95(1H,dd,J=2.7,10.8Hz), 6.93(2H,d,J=8.9Hz), 7.31(1H,s), 7.36(2H,d,J=8.9Hz), 8.16(1H,dd,J=1.5,5.4Hz), 8.85(1H,d,J=5.4Hz), 9.27(1H,d,J=1.5Hz).	434
YA0340	(CDCl3):2.36(3H,s), 2.59(4H,m), 3.02(1H,t,J=11.4Hz), 3.16-3.29(7H,m), 3.26(3H,s), 3.61(2H,m), 3.94(1H,d,J=8.0Hz), 6.94(2H,d,J=8.7Hz), 7.31(1H,s), 7.34(2H,d,J=8.7Hz), 8.16(1H,d,J=5.1Hz), 8.85(1H,d,J=5.1Hz), 9.27(1H,s).	447
YA0361	3.39-3.50(2H, m), 3.47(3H, s), 3.61-3.73(1H, m), 3.78(3H, s), 3.83(3H, s), 3.87-3.92(3H, m), 4.92(1H, t, J=10.5 Hz), 6.99-7.11(3H, m), 7.57(1H, d, J=2.7 Hz), 8.25(1H, dd, J=1.2, 5.1 Hz), 9.03(1H, d, J=4.8 Hz), 9.31(1H, d, J=0.9 Hz), 9.78(1H, d, J=9.0 Hz), 10.21-10.38(1H, m)(DMSO-d6)	409
YA0362	(DMSO-d6): 3.47(3H, s), 3.37-4.04(6H, m), 3.94(6H, s), 5.09(1H, m), 6.82(2H, d, J=8.4Hz), 7.05(1H, s), 7.45(1H, t, J=8.4Hz), 8.22(1H, m), 8.24(1H, dd, J=5.4, 1.5Hz), 9.05(1H, d, J=5.1Hz), 9.32(1H, s), 10.06(1H, m).	409
YA0366	3.38-3.60(4H, m), 3.47(3H, s), 3.88-3.95(2H, m), 3.90(3H, s), 4.86-4.92(1H, m), 6.96-7.01(1H, m), 7.06(1H, s), 7.12(1H, d, J=8.8 Hz), 7:71-7.79(1H, m), 8.23-8.24(1H, m), 9.03(1H, d, J=5.1 Hz), 9.32(1H, d, J=1.2 Hz), 9.55-9.72(2H, m)(DMSO)	397
YA0367/ YA0368	(DMSO-d6):3.30-3.75(7H,m), 3.80-4.00(5H,m), 4.80-5.00(1H,m), 6.93-7.00(1H,m), 7.05(1H,s), 7.11(1H,dd,J=2.4,11.4Hz), 7.84(1H,m), 8.23(1H,d,J=5.1Hz), 9.03(1H,d,J=5.1Hz), 9.31(1H,s), 9.60-9.80(1H,brd), 9.90-10.15(1H,brd).	397

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.YA0370	3.31-3.56(3H, m), 3.45(3H, s), 3.69-3.78(1H, m), 3.90-3.99(2H, m), 3.94(3H, s), 4.95-5.03(1H, m), 6.96-7.02(1H, m), 7.03-7.09(2H, m), 7.49-7.56(1H, m), 8.24(1H, d, J=4.4 Hz), 8.51-8.69(1H, m), 9.03(1H, d, J=5.1 Hz), 9.32(1H, s), 10.55-10.67(1H, m) (DMSO)	397
YA0378	2.77(1H, dd, J=10.5, 12.0 Hz), 3.18-3.30(3H, m), 3.61(3H, s), 3.64-3.71(2H, m), 3.86(3H, s), 4.37(1H, dd, J=2.1, 10.1 Hz), 6.89(1H, d, J=1.7 Hz), 6.99(1H, dd, J=1.6, 8.2 Hz), 7.32(1H, s), 7.50(1H, d, J=8.2 Hz), 8.19(1H, d, J=5.2 Hz), 8.86(1H, d, J=5.2 Hz), 9.27(1H, s)(CDCI3)	413
YA0399	(CDCl3):2.76(1H,dd,J=10.2,12.3Hz), 3.10-3.40(3H,m), 3.55-3.80(5H,m), 3.85(3H,s), 4.39(1H,dd,J=2.4,10.2Hz), 6.78(1H,d,J=8.7Hz), 7.32(1H,s), 7.39(1H,dd,J=2.7,8.7Hz), 7.72(1H,d,J=2.4Hz), 8.20(1H,dd,J=1.2,5.1Hz), 8.87(1H,d,J=5.1Hz), 9.27(1H,d,J=1.2Hz).	457
YA0408	(CDCl3): 1.98-2.03(4H, m), 2.84(1H, m), 3.17-3.32(7H, m), 3.60(3H, s), 3.59-3.71(2H, m), 3.85(3H, s), 4.28(1H, d, 8.4Hz), 6.10(1H, d, J=1.8Hz), 6.18(1H, d, J=8.3Hz), 7.29(1H, s), 7.33(1H, d, J=8.4Hz), 8.21(1H, d, J=5.2Hz), 8.85(1H, d, J=5.2Hz), 9.27(1H, s).	448
YA0409	(CDCl3):1.95-2.10(4H,m), 2.95-3.10(1H,m), 3.19-3.45(7H,m), 3.59(3H,s), 3.50-3.80(2H,m), 3.80(3H,s), 4.48(1H,dd,J=2.2,10.2Hz), 6.49(1H,dd,J=3.0,8.9Hz), 6.63-6.87(2H,m), 7.32(1H,s), 8.20(1H,dd,J=1.4,5.2Hz), 8.86(2H,d,J=5.2Hz), 9.27(1H,d,J=1.1Hz).	448
YA0414	(CDCl3):3.14(2H,m), 3.22(1H,t,J=11.6Hz), 3.41(1H,t,J=11.6Hz), 3.82(2H,m), 3.83(3H,s), 3.88(3H,s), 4.58(1H,dd,J=3.1,11.0Hz), 6.51(2H,m), 7.32(1H,s), 8.19(1H,dd,J=1.5,5.3Hz), 8.86(1H,d,J=5.3Hz), 9.27(1H,d,J=1.5Hz).	415
YA0423	(DMSO-d6):3.35-3.70(4H,m), 3.48(3H,s), 3.78(3H,s), 3.97(2H,m), 4.70(1H,m), 7.06(1H,t,J=7.7Hz), 7.07(1H,s), 7.15(1H,d,J=7.7Hz), 7.31(1H,d,J=7.7Hz), 7.39(1H,t,J=7.7Hz), 7.61(2H,d,J=8.1Hz), 7.70(2H,d,J=8.1Hz), 8.25(1H,d,J=4.5Hz), 9.07(1H,d,J=4.5Hz), 9.33(1H,s), 9.66(1H,br s).	455
YA0425	(DMSO-d6):3.61(3H,m), 3.76(3H,s), 3.81(3H,s), 4.01(3H,m), 4.69(1H,t,J=9.9Hz), 7.05(2H,d,J=9.0Hz), 7.07(1H,s), 7.67(2H,d,J=9.0Hz), 7.76(4H,s), 8.24(1H,dd,J=1.2,5.1Hz), 9.03(1H,d,J=5.1Hz), 9.32(1H,d,J=1.2Hz), 9.79(1H,d,J=10.2Hz), 10.07(1H,s).	455
YA0434	(DMSO-d6):3.30-3.70(4H,m), 3.42(3H,s), 3.96(2H,d,J=13.8Hz), 4.71(1H,t,J=11.3Hz), 7.06(1H,s), 7.33(2H,t,J=8.0Hz), 7.77(6H,m), 8.24(1H,d,J=5.4Hz), 9.03(1H,d,J=5.4Hz), 9.32(1H,s), 9.80(1H,d,J=8.7Hz), 10.03(1H,s).	443

YA0442	3.43-3.59(2H, m), 3.48(3H, s), 3.63-3.75(2H, m), 3.97-4.01(2H, m), 4.80-4.86(1H, m), 7.06(1H, s), 7.60-7.64(2H, m), 7.86-7.88(1H, m), 7.95-8.00(2H, m), 8.05-8.07(1H, m), 8.24-8.27(2H, m), 9.02(1H, d, J=5.4 Hz), 9.32(1H, s), 10.01(1H, d, J=10.2 Hz), 10.30-10.41(1H, m)(DMSO-d6)	399
YA0517	(CDCl3): 2.97(1H, dd, J=12.3, 10.5Hz), 3.18-3.28(5H, m), 3.58(3H, s), 3.59(1H, m), 3.77(1H, m), 4.27(1H, dd, 10.2, 2.7Hz), 4.62(2H, m), 6.89(1H, t, J=7.5Hz), 7.16(1H, m), 7.27(1H, m), 7.28(1H, s), 8.26(1H, dd, J=5.4, 1.5Hz), 8.86(1H, d, J=5.4Hz), 9.26(1H, s).	391
YA0864	(DMSO-d6):3.15-3.35(1H,m), 3.38-3.50(4H,m), 3.70-4.30(9H,m), 5.00-5.20(1H,m), 7.00-7.10(2H,m), 7.10-7.20(1H,m), 7.30-7.50(6H,m), 8.15-8.20(1H,m), 8.30-8.40(1H,brd), 9.05(1H,d,J=5.1Hz), 9.31(1H,d,J=0.9Hz).	487
YA1074	(CDCl3):1.80-2.40(3H, m), 3.12-3.34(4H, m), 3.39-4.20(7.6H, m), 4.50-5.07(0.6H, m), 5.30-5.60(0.7H, m), 5.72-6.05(0.1H, m), 6.52-6.80(2H, m), 6.82-7.22(1H, m), 7.28(1H, s), 8.18(1H, d,J=4.8Hz), 8.89(1H, d,J=5.1Hz), 9.28(1H, d,J=1.2Hz)	439
YA1339	(CDCl3):2.50-2.62(1H,m), 2.80-2.95(1H,m), 3.02-3.20(1H,m), 3.25-3.40(1H,m), 3.50-3.74(5H,m), 3.75-3.80(1H,m), 3.85(3H,s), 6.60-6.80(2H,m), 7.30(1H,s), 7.48(1H,t,J=8.4Hz), 8.19(1H,dd,J=1.2,5.1Hz), 8.86(1H,d,J=5.1Hz), 9.27(1H,d,J=1.5Hz).	411
YA1340/ YA1341	(DMSO-d6):2.55(3H,d,J=3.9Hz), 3.40-3.80(3H,m), 3.45(3H,s), 3.80-4.15(6H,m), 4.85-5.15(1H,m), 6.90-7.05(1H,m), 7.05(1H,s), 7.13(1H,dd,J=2.4,11.4Hz), 8.21(1H,dd,J=1.2,5.1Hz), 9.04(1H,d,J=5.1Hz), 9.31(1H,d,J=1.2Hz), 11.50-12.20(1H,brd).	411
YA1534	2.90-3.10 (1H, m), 3.15-3.35 (3H, m), 3.50-3.70 (5H, m), 3.80-4.05 (7H, m), 6.87 (1H, d, J = 8.1 Hz), 6.90-7.10 (2H, m), 7.31 (1H, s), 8.16 (1H, d, J = 4.6 Hz), 8.85 (1H, d, J = 5.0 Hz), 9.27 (1H, s) (CDCI3)	408
YA1535	3.45 (3H, s), 3.46 (2H, m), 3.64 (m, 2H), 3.91 (2H, t, J = 16.1 Hz), 4.68 (1H, t, J = 10.5 Hz), 7.05 (1H, s), 7.59 (2H, d, J = 8.4 Hz), 7.79 (2H, d, J = 8.4 Hz), 8.23 (1H, dd, J = 5.1, 1.2 Hz), 9.02 (1H, d, J = 5.1 Hz), 9.31 (1H, d, J = 1.2 Hz), 10.00 (1H, d, J = 8.7 Hz), 10.49 (1H, br s) (DMSO-6)	383
YA1536	3.45 (3H, s), 3.46 (2H, m), 3.64 (m, 2H), 3.91 (2H, t, J = 16.1 Hz), 4.68 (1H, t, J = 10.5 Hz), 7.05 (1H, s), 7.59 (2H, d, J = 8.4 Hz), 7.79 (2H, d, J = 8.4 Hz), 8.23 (1H, dd, J = 5.1, 1.2 Hz), 9.02 (1H, d, J = 5.1 Hz), 9.31 (1H, d, J = 1.2 Hz), 10.00 (1H, d, J = 8.7 Hz), 10.49 (1H, br s) (DMSO-6)	383

	0.00/011	
YA1537	2.39(3H, s), 2.60(4H, t, J=4.6Hz), 3.37(4H, t, J=4.8Hz), 3.53(3H, s), 7.27(1H, s), 8.18(1H, dd, J=1.2, 5.4Hz), 8.87(1H, d, J=5.1Hz), 9.28(1H, s)(CDCl3)	
YA1538	2.64-2.74(1H, br.s), 2.66(2H, t, J=5.3Hz), 2.73(4H, t, J=4.4Hz), 3.39(4H, t, J=4.0Hz), 3.54(3H, s), 3.69-3.70(2H, m), 7.26(1H, s), 8.18(1H, d, J=5.0Hz), 8.88(1H, t, J=5.0Hz), 9.28(1H, s)(CDCI3)	316
YA1539	1.10(6H, t, J=6.6Hz), 2.71(4H, t, J=4.9Hz), 2.77(1H, m), 3.36(4H, t, J=4.9Hz), 3.54(3H, s), 7.27(1H, s), 8.18(1H, dd, J=1.1, 5.2Hz), 8.87(2H, d, J=5.1Hz), 9.27(1H, s)(CDCI3)	314
YA1540	1.15(6H, d, J=6.2Hz), 1.50(1H, br.s), 2.61(2H, dd, J=1.6, 12.4Hz), 3.06-3.16(2H, m), 3.49(2H, d, J=13.0Hz), 3.52(3H, s), 7.27(1H, s), 8.16(1H, dd, J=1.3, 5.0Hz), 8.88(1H, d, J=5.0Hz), 9.27(1H, d, J=1.3Hz)(CDCI3)	300
YA1541	2.98 (1H, t, J = 11.5 Hz), 3.20 (3H, m), 3.57 (3H, s), 3.58 (2H, m), 4.02 (1H, dd, J = 10.5, 2.2 Hz), 7.27 (1H, s), 7.29 (1H, d, J = 8.3 Hz), 7.46 (1H, d, J = 8.3 Hz), 7.61 (1H, s), 8.13 (1H, d, J = 5.2 Hz), 8.86 (1H, d, J = 5.2 Hz), 9.27 (1H, s) (CDCI3)	417
YA1542	3.44(3H, s), 3.62-3.73(2H, m), 3.86-3.93(2H, m), 4.66(1H, m), 7.05(1H, s), 7.45(1H, dd, J=8.4, 8.4Hz), 7.67(1H, d, J=8.4Hz), 7.81(1H, d, J=8.4Hz), 8.04(1H, s), 8.25(1H, dd, J=5.4, 1.5Hz), 9.02(1H, d, J=5.4 Hz), 8.18(1H, dd, J=5.4, 1.2 Hz), 8.99(1H, d, J=5.1 Hz), 9.32(1H, d, J=1.5 Hz), 10.13(1H, m), 10.67(1H, m) (DMSO)	427
YA1543	3.33 (1H, dd, J = 13.5, 8.9 Hz), 3.47 (3H, s), 3.79 (1H, dd, J = 13.5, 3.9 Hz), 4.73 (1H, d, J = 17.1 Hz), 4.22 (1H, d, J = 17.1 Hz), 4.82 (1H, dd, J = 8.9, 3.9 Hz), 6.08 (1H, s), 7.31 (2H, d, J = 8.4 Hz), 7.42 (2H, d, J = 8.4 Hz), 8.14 (1H, d, J = 5.1, 1.5 Hz), 8.90 (1H, d, J = 5.1 Hz), 9.29 (1H, d, J = 1.5 Hz) (CDCI3)	397
YA1544	1.97 (4H, m), 3.26 (4H, m), 3.39 (2H, m), 3.44 (3H, s), 3.60 (2H, m), 3.79 (1H, d, J = 13.5 Hz), 3.91 (1H, d, J = 13.8 Hz), 4.48 (1H, t, J = 10.1 Hz), 6.66 (2H, d, J = 8.4 Hz), 7.04 (1H, s), 7.51 (2H, d, J = 8.4 Hz), 8.21 (1H, d, J = 5.1 Hz), 9.02 (1H, d, J = 5.1 Hz), 9.31 (1H, s), 9.70 (1H, d, J = 10.8 Hz), 10.07 (1H, br s) (DMSO-d6)	418
YA1545	3.21 (4H, m), 3.42 (2H, m), 3.44 (3H, s), 3.62 (2H, m), 3.79 (4H, m), 3.90 (2H, t, J = 14.6 Hz), 4.54 (1H, t, J = 10.5 Hz), 7.05 (1H, s), 7.13 (2H, d, J = 8.7 Hz), 7.62 (2H, d, J = 8.7 Hz), 8.22 (1H, d, J = 4.8 Hz), 9.02 (1H, d, J = 4.8 Hz), 9.31 (1H, s), 9.80 (1H, d, J = 9.3 Hz), 10.23 (1H, br s) (DMSO-d6)	434

YA1546	2.80 (3H, d, J = 4.5 Hz), 3.26 (4H, m), 3.44 (3H, s), 3.45 (4H, m), 3.60 (2H, m), 3.80 (1H, d, J = 3.5 Hz), 3.90 (3H, m), 4.54 (1H, t, J = 10.5 Hz), 7.04 (1H, s), 7.10 (2H, d, J = 8.7 Hz), 7.62 (2H, d, J = 8.7 Hz), 8.20 (1H, dd, J = 5.1, 1.2 Hz), 9.02 (1H, d, J = 5.1 Hz), 9.32 (1H, d, J = 1.2 Hz), 9.86 (1H, d, J = 10.2 Hz), 10.33 (1H, br s), 11.15 (1H, br s) (DMSO-d6)	447
YA1547	2.28(3H, s), 3.07(4H, t, J=4.7Hz), 3.37(4H, t, J=4.8Hz), 3.75(3H, s), 5.76(1H, s), 7.26-7.33(2H, m), 7.45(2H, dd, J=7.8, 7.8Hz), 7.79(2H, d, J=7.8Hz), 8.14(1H, d, J=5.4Hz), 8.87(1H, dd, J=7.8, 7.8Hz), 9.28(1H, d, J=1.2Hz)(CDCI3)	428
YA1548	2.37 (1H, m), 2.43 (1H, m), 2.80 (3H, d, J = 5.2 Hz), 2.81 (3H, d, J = 5.2 Hz), 3.28 (1H, q, J = 8.8 Hz), 3.40 (2H, m), 3.44 (3H, s), 3.57 (5H, m), 3.79 (1H, d, J = 11.4 Hz), 3.97 (2H, m), 4.50 (1H, t, J = 10.0 Hz), 6.69 (2H, d, J = 8.4 Hz), 7.05 (1H, s), 7.54 (2H, d, J = 8.4 Hz), 8.20 (1H, dd, J = 4.8, 1.2 Hz), 9.03 (1H, d, J = 4.8 Hz), 9.32 (1H, d, J = 1.2 Hz), 9.71 (1H, br s), 10.06 (1H, br s), 11.35 (1H, br s) (DMSO-d6)	461
YA1549	2.33 (1H, m), 2.41 (1H, m), 2.79 (3H, d, J = 4.8 Hz), 2.81 (3H, d, J = 4.8 Hz), 3.28 (1H, d, J = 8.4 Hz), 3.39 (2H, m), 3.44 (3H, s), 3.57 (5H, m), 3.79 (1H, d, J = 13.3 Hz), 3.97 (2H, m), 4.50 (1H, t, J = 11.6 Hz), 6.69 (2H, d, J = 8.4 Hz), 7.04 (1H, s), 7.55 (2H, d, J = 8.4 Hz), 8.21 (2H, d, J = 5.2 Hz), 9.02 (2H, d, J = 5.2 Hz), 9.32 (1H, s), 9.75 (1H, br s), 10.14 (1H, br s), 11.45 (1H, br s) (DMSO-d6)	461
YA1550	3.47 (3H, s), 3.60 (2H, m), 3.76 (2H, m), 3.81 (3H, s), 3.94 (2H, m), 4.68 (1H, m), 7.05 (2H, d, J = 8.6 Hz), 7.06 (1H, s), 7.67 (2H, d, J = 8.6 Hz), 7.76 (4H, s), 8.25 (1H, d, J = 5.0 Hz), 9.03 (1H, d, J = 5.0 Hz), 9.32 (1H, s) (DMSO-d6)	455
YA1551	1.18 (1H, m), 1.40 (4H, m), 1.70 (1H, m), 1.80 (4H, m), 2.55 (1H, m), 3.43 (2H, m), 3.45 (3H, s), 3.60 (2H, m), 3.91 (2H, m), 4.60 (1H, t, J = 10.8 Hz), 7.05 (1H, s), 7.35 (2H, d, J = 8.0 Hz), 7.64 (2H, d, J = 8.0 Hz), 9.03 (1H, d, J = 4.8 Hz), 9.31 (1H, s), 9.80 (1H, d, J = 8.8 Hz), 10.24 (1H, m) (DMSO-d6)	431
YA1552	3.02(4H, m), 3.23(4H, m), 3.49(3H, s), 7.08-7.67(10H, m), 8.15(1H, d, J=5.1Hz), 8.87(1H, d, J=5.1Hz), 9.27(1H, s)(CDCl3)	424
YA1553	2.90 (1H, dd, J = 13.2, 9.6 Hz), 3.16 (2H, m), 3.24 (1H, d, 14.4 Hz), 3.31 (3H, s), 3.34 (1H, d, J = 13.6 Hz), 3.47 (1H, t, J = 13.2 Hz), 3.80 (3H, m), 6.97 (1H, s), 7.38 (2H, m), 7.45 (3H, m), 7.64 (1H, dd, J = 5.2, 1.2 Hz), 8.94 (1H, d, J = 5.2 Hz), 9.28 (1H, d, J = 1.2 Hz), 9.54 (1H, br s), 9.78 (1H, br s) (DMSO-d6)	363

YA1554	2.95 (1H, m), 3.29-3.05 (3H, m), 3.34 (3H, s), 3.35 (1H, m), 3.44 (1H, t, J = 12.4 Hz), 3.79 (3H, m), 6.99 (1H, s), 7.40 (2H, d, J = 8.4 Hz), 7.51 (2H, d, J = 8.4 Hz), 7.76 (1H, dd, J = 4.8, 1.2 Hz), 8.96 (1H, d, J = 4.8 Hz), 9.29 (1H, d, J = 1.2 Hz), 9.38 (1H, br s), 9.71 (1H, br s) (DMSO-d6)	397
YA1555	1.65 (2H, br s), 1.90 (4H, br s), 3.44 (6H, m), 3.45 (3H, s), 3.61 (2H, m), 3.88 (1H, d, J = 13.6 Hz), 3.94 (1H, d, J = 13.6 Hz), 4.66 (1H, t, J = 8.8 Hz), 7.05 (1H, s), 7.82 (4H, br s), 8.23 (1H, dd, J = 5.2, 1.2 Hz), 9.02 (1H, d, J = 5.2 Hz), 9.31 (1H, d, J = 1.2 Hz), 9.89 (1H, br s), 10.37 (1H, br s) (DMSO-d6)	432
YA1556	3.42 (2H, m), 3.45 (3H, s), 3.56 (2H, m), 3.85 (1H, d, J = 13.2 Hz), 3.93 (1H, d, J = 14.0 Hz), 4.55 (1H, t, J = 10.8 Hz), 6.94 (1H, br s), 7.05 (1H, s), 7.15 (4H, br s), 7.31 (2H, br s), 7.57 (2H, br s), 8.22 (1H, d, J = 4.8 Hz), 9.03 (1H, d, J = 4.8 Hz), 9.32 (1H, s), 9.66 (1H, br s), 9.90 (1H, br s) (DMSO-d6)	509
YA1557	1.40 (1H, m), 1.78 (8H, m), 2.18 (2H, d, J = 11.2 Hz), 2.78 (2H, m), 2.91 (2H, m), 3.30 (1H, m), 3.40 (3H, m), 3.44 (3H, s), 3.58 (2H, m), 3.82 (1H, d, J = 13.3 Hz), 3.93 (3H, m), 4.53 (1H, m), 7.05 (1H, s), 7.11 (2H, d, J = 8.8 Hz), 7.57 (2H, d, J = 8.8 Hz), 8.21 (1H, d, J = 5.2 Hz), 9.02 (1H, d, J = 5.2 Hz), 9.32 (1H, s), 9.73 (1H, d, J = 8.4 Hz), 10.09 (1H, br s), 10.39 (1H, br s) (DMSO-d6)	515
YA1558	2.84-2.91(1H, m), 3.01-3.05(4H, m), 3.22(3H, s), 3.46(3H, s), 3.68-3.72(2H, m), 4.07-4.11(1H, m), 6.95(1H, s), 7.78(2H, d, J=7.2Hz), 7.93(2H, d, J=7.2Hz), 8.31(1H, d, J=4.2Hz), 8.99(1H, d, J=4.2Hz), 9.28(1H, s)(DMSO-d6)	427
YA1559	1.84 (4H, m), 1.97 (2H, m), 2.13 (2H, m), 2.79 (2H, t, J = 11.6 Hz), 3.04 (2H, m), 3.24 (1H, m), 3.40 (2H, m), 3.44 (3H, s), 3.59 (2H, m), 3.80 (1H, d, J = 14.0 Hz), 3.91 (3H, m), 4.53 (1H, t, J = 11.2 Hz), 7.05 (1H, s), 7.13 (2H, d, J = 8.4 Hz), 7.58 (2H, d, J = 8.4 Hz), 8.22 (1H, d, J = 5.2 Hz), 9.02 (1H, d, J = 5.2 Hz), 9.31 (1H, s), 9.75 (1H, d, J = 8.4 Hz), 10.10 (1H, br s), 11.04 (1H, br s) (DMSO-d6)	501
YA1560	1.71(2H, m), 2.12(2H, m), 2.74(6H, d, J=4.8 Hz), 2.74-2.80(3H, m), 3.30-3.96(8H, m), 3.40(3H, s), 4.54(1H, m), 7.05(1H, s), 7.10(2H, d, J=9.0 Hz), 7.54(2H, d, J=9.0 Hz), 8.21(1H, dd, J=5.1, 1.2 Hz), 9.03(1H, d, J=5.4 Hz), 9.32(1H, s), 9.68(1H, m), 9.92(1H, m), 10.54(1H, m), (DMSO-d6)	475
YA1561	1.51(2H, m), 1.84(2H, m),3.00-3.20(3H, m), 3.38(3H, s), 3.38-3.91(8H, m), 4.55(1H, m), 7.05(1H, s), 7.18(2H, d, J=9.0 Hz), 7.51(2H, d, J=9.0 Hz), 8.21(1H, d, J=6.0 Hz), 9.02(1H, d, J=5.1 Hz), 9.31(1H, s), 9.54-9.62(3H, m), (DMSO-d6)	448

YA1562	1.89-2.05(2H, m), 2.65-3.20(5H, m), 3.25-3.82(5H, m), 3.41(3H, s), 4.39(1H, m), 4.91(1H, m), 6.49(2H, d, J= 8.4 Hz), 6.96(1H, s), 7.25(2H, d, J=8.4 Hz), 8.18(1H, dd, J=4.2, 0.9 Hz), 8.99(1H, d, J=5.1 Hz), 9.28(1H, s), (DMSO-d6)	434
YA1563	1.06 (1H, m), 1.30 (2H, m), 1.43 (2H, m), 1.60 (2H, m), 1.79 (3H, m), 2.97 (3H, m), 3.45 (3H, s), 3.60 (2H, m), 3.80 (3H, s), 3.90 (2H, m), 4.63 (1H, m), 7.05 (1H, s), 7.70 (4H, br s), 8.23 (1H, d, J = 5.2 Hz), 9.03 (1H, d, J = 5.2 Hz), 9.32 (1H, s), 9.75 (1H, br s) (DMSO-d6)	460
YA1564	2.99 (6H, m), 3.44 (1H, m), 3.45 (3H, s), 3.57 (3H, m), 3.82 (1H, d, J = 13.2 Hz), 4.92 (1H, d, J = 14.4 Hz), 4.55 (1H, t, J = 10.0 Hz), 7.05 (1H, s), 7.06 (2H, br s), 7.61 (2H, br s), 8.22 (1H, d, J = 5.2 Hz), 9.03 (1H, d, J = 5.2 Hz), 9.32 (1H, s), 9.73 (1H, br s), 10.11 (1H, br s) (DMSO-d6)	392
YA1565	3.20-3.22(4H, m), 3.44-3.89(15H, m), 4.51-4.55(1H, m), 5.11(2H, s), 7.04-7.07(3H, m), 7.35-7.39(5H, m), 7.53(2H, d, J=7.2Hz), 8.20(1H, d, J=4.2Hz), 9.01(1H, d, J=4.2Hz), 9.31(1H, s), 9.78-9.92(2H, br)(DMSO-d6)	567
YA1566	1.33(6H, d, J=6.8Hz), 3.02-3.55(13H, m), 3.89-3.93(5H, m), 4.52-4.55(1H, m), 6.99-7.13(3H, m), 7.60(2H, d, J=7.2Hz), 8.21(1H, d, J=4.2Hz), 9.02(1H, d, J=4.2Hz), 9.32(1H, s), 9.67-10.15(3H, br), 10.84-10.88(1H, br)(DMSO-d6)	475
YA1567	3.17-3.26(8H, m), 3.44-3.55(6H, m), 3.80-3.94(9H, m), 4.50-4.57(1H, m), 7.05-7.12(3H, m), 7.60(2H, d, J=7.2Hz), 8.21(1H, d, J=4.2Hz), 9.02(1H, d, J=4.2Hz), 9.32(1H, s), 9.77-9.80(1H, br), 10.16-10.20(1H, br), 10.49-10.52(1H, br)(DMSO-d6)	477
YA1568	3.18-3.24(3H, m), 3.40-3.59(13H, m), 4.02-4.06(2H, m), 4.51-4.55(1H, m), 7.03-7.11(3H, m), 7.52(2H, d, J=7.2Hz), 8.21(1H, d, J=4.2Hz), 9.02(1H, d, J=4.2Hz), 9.18-9.22(1H, br), 9.38(1H, s), 9.72-9.78(1H, br), 10.04-10.10(1H, br)(DMSO-d6)	433
YA1569	1.90-2.02(2H, m), 2.80-3.06(5H, m), 3.25-3.82(5H, m), 3.65(3H, s), 4.39(1H, m), 4.94(1H, m), 6.49(2H, d, J= 8.4 Hz), 6.96(1H, s), 7.25(2H, d, J=8.4 Hz), 8.16(1H, dd, J=5.4, 0.9 Hz), 8.99(1H, d, J=5.1 Hz), 9.29(1H, s) (DMSO-d6)	434
YA1570	1.15(6H, d, J= 6.3 Hz), 2.31(2H, dd, J= 11.1 Hz), 2.98-3.23(6H, m), 3.48-3.62(4H, m), 3.56(3H, s), 3.94(1H, dd, J= 10.2, 2.1 Hz), 6.94(2H, d, J= 8.7 Hz), 7.31(1H, s), 7.34(2H, d, J=8.7 Hz), 8.16(1H, dd, J=5.1, 1.2 Hz), 8.86(1H, d, J=5.1 Hz), 9.26(1H, s) (CDCI3)	461

YA1571	1.27(6H, d, J= 6.0 Hz), 2.43(2H, dd, J= 11.1, 11.1 Hz), 3.02(1H, dd, J=12.0, 10.5 Hz), 3.17-3.23(3H, m), 3.45-3.61(4H, m), 3.56(3H, s), 3.81(1H, m), 3.95(1H, m), 6.92(2H, d, J= 8.7 Hz), 7.32(1H, s), 7.35(2H, d, J=8.7 Hz), 8.17(1H, m), 8.86(1H, d, J=5.1 Hz), 9.26(1H, d, J=1.2 Hz) (CDCI3)	462
YA1572	3.27-3.32(8H, m), 3.47(3H, s), 3.82-3.86(2H, m), 4.36-4.39(1H, m), 7.02(1H, s), 7.72(2H, d, J=7.2Hz), 7.84(2H, d, J=7.2Hz), 7.96-8.04(4H, m), 8.22(1H, d, J=4.2Hz), 9.01(1H, d, J=4.2Hz), 9.30(1H, s)(DMSO-d6)	503
YA1573	2.93-3.10(5H, m), 3.46(3H, s), 3.69-3.71(1H, m), 4.01-4.04(1H, m), 6.99(1H, s), 7.63(2H, d, J=7.2Hz), 7.77(2H, d, J=7.2Hz), 7.88-7.95(4H, m), 8.18(1H, d, J=4.2Hz), 8.99(1H, d, J=4.2Hz), 9.29(1H, s)(DMSO-d6)	450
YA1574	3.08 (1H, dd, J =12.5, 10.4 Hz), 3.24 (3H, m), 3.59 (3H, s), 3.66 (2H, m), 4.09 (1H, dd, J = 10.4, 2.4 Hz), 7.29 (2H, d, J = 8.3 Hz), 7.33 (1H, s), 7.54 (2H, d, J = 8.3 Hz), 7.56 (2H, d, J = 8.3 Hz), 7.59 (2H, d, J = 8.3 Hz), 8.17 (1H, d, J = 4.9 Hz), 8.86 (1H, d, J = 4.9 Hz), 9.27 (1H, s) (CDCl3)	509
YA1575	3.08 (1H, dd, J = 12.4, 10.0 Hz), 3.25 (3H, m), 3.59 (3H, s), 3.67 (2H, m), 4.11 (1H, dd, J = 10.0, 2.0 Hz), 7.33 (1H, s), 7.57 (2H, d, J = 8.0 Hz), 7.63 (2H, d, J = 8.0 Hz), 7.71 (4H, s), 8.16 (1H, dd, J = 5.2, 1.2 Hz), 8.16 (1H, dd, J = 5.2, 1.2 Hz), 8.86 (1H, d, J = 5.2 Hz), 9.27 (1H, d, J = 1.2 Hz) (CDCI3)	493
YA1576	1.45 (3H, t, J = 7.0 Hz), 3.08 (1H, dd, J = 12.5, 10.6 Hz), 3.22 (3H, m), 3.58 (3H, s), 3.62 (2H, m), 4.05 (1H, m), 4.08 (2H,q, J = 7.0 Hz), 6.98 (2H, d, J = 8.0 Hz), 7.32 (1H, s), 7.49 (2H, d, J = 8.0 Hz), 7.52 (2H, d, J = 8.0 Hz), 7.58 (2H, d, J = 8.0 Hz), 8.17 (1H, d, J = 5.3 Hz), 8.86 (1H, d, J = 5.3 Hz), 9.27 (1H, s), (CDCI3)	469
YA1577	1.83 (4H, m), 1.99 (1H, m), 2.21 (1H, m), 2.61 (4H, m), 2.87 (1H, m), 3.03 (1H, dd, J = 12.0, 10.0 Hz), 3.20 (4H, m), 3.33 (1H, m), 3.42 (1H, m), 3.49 (1H, m), 3.56 (3H, s), 3.61 (2H, m), 3.90 (1H, dd, J = 10.0, 2.0 Hz), 6.55 (2H, d, J = 8.8 Hz), 7.29 (2H, d, J = 8.8 Hz), 7.30 (1H, s), 8.16 (1H, d, J = 5.2 Hz), 8.85 (1H, d, J = 5.2 Hz), 9.26 (1H, s) (CDCI3)	487
YA1578	3.09 (1H, dd, J = 12.4, 10.8 Hz), 3.20 (3H, m), 3.58 (3H, s), 3.64 (2H, m), 3.82 (3H, s), 3.86 (3H, s), 4.05 (1H, dd, J = 10.4, 2.8 Hz), 6.58 (2H, m), 7.24 (2H, m), 7.32 (1H, s), 7.47 (2H, d, J = 8.4 Hz), 7.53 (2H, d, J = 8.4 Hz), 8.17 (1H, dd, J = 5.2, 1.2 Hz), 8.86 (1H, d, J = 5.2 Hz), 9.27 (1H, d, J = 1.2 Hz) (CDCI3)	485

YA1579	3.08 (1H, dd, J = 12.5, 10.6 Hz), 3.23 (3H, m), 3.59 (3H, s), 3.66 (2H, m), 3.93 (3H, s), 3.96 (3H, s), 4.07 (1H, dd, J = 10.3, 2.2 Hz), 6.95 (1H, d, J = 8.3 Hz), 7.11 (1H, d, J = 2.0 Hz), 7.16 (1H, dd, J = 8.3, 2.0 Hz), 7.33 (1H, s), 7.52 (1H, d, J = 8.1 Hz), 7.59 (1H, d, J = 8.1 Hz), 8.17 (1H, dd, J = 5.3, 1.2 Hz), 8.85 (1H, d, J = 5.3 Hz), 9.27 (1H, d, J = 1.2 Hz) (CDCI3)	485
YA1580	3.07 (1H, dd, $J=12.4$, 10.4 Hz), 3.23 (3H, m), 3.59 (3H, s), 3.65 (2H, m), 4.08 (1H, dd, $J=10.4$, 2.0 Hz), 7.32 (1H, s), 7.41 (2H, d, $J=8.4$ Hz), 7.52 (2H, d, $J=8.4$ Hz), 7.53 (2H, d, $J=8.4$ Hz), 7.58 (2H, d, $J=8.4$ Hz), 8.16 (1H, d, $J=4.8$ Hz), 8.86 (1H, d, $J=4.8$ Hz), 9.27 (1H, s) (CDCI3)	459
YA1581	3.09 (1H, dd, J = 12.2, 11.0 Hz), 3.24 (3H, m), 3.59 (3H, s), 3.66 (2H, m), 4.10 (1H, dd, J = 10.4, 2.4 Hz), 7.29 (2H, m), 7.33 (1H, s), 7.44 (2H, d, J = 8.0 Hz), 7.52 (3H, m), 8.18 (1H, dd, J = 5.3, 1.0 Hz), 8.87 (1H, d, J = 5.3 Hz), 9.27 (1H, d, J = 1.0 Hz) (CDCI3)	493
YA1582	3.06 (1H, dd, J = 12.4, 10.4 Hz), 3.25 (3H, m), 3.58 (3H, s), 3.65 (2H, m), 4.09 (1H, dd, J = 10.0, 2.0 Hz), 7.33 (1H, s), 7.42 (1H, dd, J = 8.0, 2.0 Hz), 7.56 (5H, m), 7.68 (1H, d, J = 2.0 Hz), 8.16 (1H, dd, J = 5.2, 1.2 Hz), 8.85 (1H, d, J = 5.2 Hz), 9.27 (1H, d, J = 1.2 Hz) (CDCI3)	493
YA1583	3.06 (1H, dd, J = 12.3, 10.8 Hz), 3.23 (3H, m), 3.59 (3H, s), 3.65 (2H, m), 4.13 (1H, dd, J = 10.2, 2.2 Hz), 7.33 (1H, s), 8.14 (1H, d, J = 5.3 Hz), 8.15 (2H, d, J = 8.4 Hz), 8.78 (1H, s), 8.86 (1H, d, J = 5.3 Hz), 9.27 (1H, s) (CDCI3)	417
YA1584	1.37(6H, d, J= 6.0 Hz), 3.07(1H, dd, J=12.6, 10.8 Hz), 3.20-3.26(3H, m), 3.58(3H, s), 3.65-3.68(2H, m), 4.07(1H, m), 4.59(1H, m), 6.98(2H, d, J= 8.7 Hz), 7.48(1H, s), 7.50-7.61(6H, m), 8.17(1H, d, J=4.8 Hz), 8.86(1H, d, J=5.1 Hz), 9.26(1H, d, J=1.2 Hz) (CDCI3)	483
YA1585	0.99(3H, t, J= 7.5 Hz), 1.47-1.82(4H, m), 3.07(1H, dd, J=12.3, 10.5 Hz), 3.22-3.27(3H, m), 3.58(3H, s), 3.62-3.65(2H, m), 4.03(2H, t, J= 6.3 Hz), 4.04(1H, m), 6.98(2H, d, J= 8.7 Hz), 7.48(1H, s), 7.50-7.59(6H, m), 8.17(1H, dd, J=5.1, 1.2 Hz), 8.86(1H, d, J=5.1 Hz), 9.26(1H, d, J=1.2 Hz) (CDCI3)	497
YA1586	1.28(1H, br.s), 2.51(3H, s), 3.07(1H, dd, J=10.8, 12.6Hz), 3.21-3.28(3H, m), 3.58(3H, s), 3.64(2H, m), 4.08(1H, dd, J=2.5, 19.5Hz), 7.34(2H, d, J=7.8Hz), 7.45-7.67(7H, m), 8.17(1H, d, J=5.4Hz), 8.86(1H, d, J=5.1Hz), 9.27(1H, d, J=1.2Hz)(CDCl3)	470

YA1587	1.86(1H, br.s), 2.40(3H, s), 3.07(1H, dd, J=10.8, 12.6Hz), 3.20-3.27(2H, m), 3.58(3H, s), 3.62-3.68(3H, m), 4.06(1H, dd, J=2.5, 19.5Hz), 7.24-7.27(2H, m), 7.49-7.52(5H, m), 7.60(2H, d, J=8.2Hz), 8.17(1H, d, J=5.4Hz), 8.85(1H, d, J=5.2Hz), 9.27(1H, s)(CDCI3)	438
YA1588	1.29(6H, s), 1.85(1H, br.s), 2.94-2.96(1H, m), 3.08(1H, dd, J=10.8, 12.6Hz), 3.21-3.27(3H, m), 3.59(3H, s), 3.65(2H, m), 4.07(1H, dd, J=2.5, 19.5Hz), 7.28-7.62(9H, m), 8.17(1H, dd, J=1.2, 5.7Hz), 8.86(1H, d, J=5.1Hz), 9.27(1H, d, J=1.2Hz)(CDCI3)	466
YA1589	1.72(1H, br.s), 3.10(1H, m), 3.21-3.24(3H, m), 3.58(3H, s), 3.58-3.73(4H, m), 4.09(1H, dd, J=2.5, 19.5Hz), 6.75(2H, dd, J=2.1, 6.6Hz), 7.23-7.57(7H, m), 8.16(1H, d, J=5.4Hz), 8.86(1H, d, J=5.1Hz), 9.27(1H, d, J=1.2Hz)(CDCI3)	439
YA1590	2.79 (1H, dd, J = 10.5, 12.6 Hz), 3.20-3.40 (3H, m), 3.50-3.80 (5H, m), 4.45 (1H, dd, J = 3.0, 10.2 Hz), 7.10-7.20 (1H, m), 7.30-7.40 (2H, m), 7.58 (1H, dd, J = 0.9, 7.8 Hz), 7.73 (1H, dd, J = 1.5, 7.8 Hz), 8.19 (1H, dd, J = 0.9, 4.8 Hz), 8.85 (1H, d, J = 5.1 Hz), 9.26 (1H, d, J = 0.9 Hz) (CDCI3)	427
YB013	1.31-1.46(1H, m), 1.60-1.96(3H, m), 2.17-2.30(1H, m), 2.89-3.02(2H, m), 3.41(3H, s), 3.61(1H, d, J=12.4 Hz), 3.80(1H, d, J=13.5 Hz), 3.90-4.01(2H, m), 6.89-7.01(3H, m), 6.96(1H, s), 7.27-7.32(2H, m), 8.18(1H, d, J=4.4 Hz), 8.96(1H, d, J=5.0 Hz), 9.28(1H, s)(DMSO-d6)	378
YB014	1.33-1.49(1H, m), 1.60-1.93(3H, m), 2.20-2.32(1H, m), 2.89-3.04(2H, m), 3.41(3H, s), 3.63(1H, d, J=13.3 Hz), 3.82(1H, d, J=11.1 Hz), 4.22-4.37(2H, m), 6.95(1H, s), 7.51-7.56(2H, m), 7.65-7.70(1H, m), 8.00-8.03(2H, m), 8.17(1H, dd, J=1.1, 5.1 Hz), 8.87(1H, d, J=5.1 Hz), 9.28(1H, d, J=1.0 Hz)(DMSO-d6)	406
YB048	(CDCl3): 1.93-2.07(3H, m), 2.38(1H, m), 3.09(1H, m), 3.46(1H, m), 3.57(3H, s), 3.61-3.70(2H, m), 4.05(1H, m), 7.26-7.34(2H, m), 7.59-7.61(2H, m), 7.76(1H, m), 8.16(1H, m), 8.83(1H, m), 9.27(1H, s).	389
YB049	(CDCI3): 1.92-2.08(3H, m), 2.36(1H, m), 3.11(1H, m), 3.44(1H, dd, J=12.9, 10.8Hz), 3.58(3H, s), 3.61-3.70(2H, m), 4.06(1H, m), 7.11(1H, m), 7.28-7.33(2H, m), 7.70(1H, dd, J=8.7, 4.8Hz), 8.15(1H, m), 8.86(1H, d, J=5.4Hz), 9.28(1H, s).	407
YB050	1.93-2.11(3H, m), 2.33-2.45(1H, m), 3.08-3.16(1H, m), 3.46(1H, dd, J=11.4, 12.9 Hz), 3.59(3H, s), 3.62-3.71(2H, m), 4.06(1H, d, J=12.6 Hz), 7.32-7.37(1H, m), 7.32(1H, s), 7.57-7.64(2H, m), 7.75(1H, d, J=8.1 Hz), 8.16(1H, dd, J=1.2, 5.4 Hz), 8.84(1H, d, J=4.8 Hz), 9.28(1H, d, J=0.9 Hz)(CDCI3)	389

YB051	1.91-2.11(3H, m), 2.35-2.43(1H, m), 3.08-3.16(1H, m), 3.42-3.50(1H, m), 3.59(3H, s), 3.62-3.71(2H, m), 4.05(1H, d, J=11.1 Hz), 7.32(1H, s), 7.33-7.37(1H, m), 7.57-7.65(2H, m), 7.75(1H, d, J=7.8 Hz), 8.16(1H, d, J=5.7 Hz), 8.84(1H, d, J=5.4 Hz), 9.28(1H, d, J=1.2 Hz)(CDCI3)	389
YB130	1.78-1.96(4H, m), 2.73-2.90(1H, m), 3.02-3.09(2H, m), 3.46(3H, s), 3.84(2H, d, J=12.6 Hz), 6.98(1H, s), 7.11-7.17(2H, m), 7.33-7.38(2H, m), 8.25(1H, d, J=5.1 Hz), 9.01(1H, d, J=4.8 Hz), 9.30(1H, s)(DMSO-d6)	366
YB157	1.90-2.05(2H,m), 2.18-2.35(2H,m), 2.92-3.09(1H,m), 3.10-3.23(2H,m), 3.58(3H,s), 3.72-3.83(2H,m), 6.95-7.07(1H,m), 7.22(1H,dd,J=2.2,9.0Hz), 7.34(1H,s), 7.46(1H,s), 7.48-7.55(1H,m), 8.20(1H,d,J=5.3Hz), 8.88(1H,d,J=5.2Hz), 9.29(1H.s)(CDCI3)	406
YB158	1.91-2.04(2H, m), 2.23(2H, d, J=8.9Hz), 2.44(3H, s), 2.97-3.11(1H, m), 3.16(2H, dd, J=11.1, 12.4Hz), 3.58(3H, s), 3.77(2H, d, J=13.0Hz), 7.12(1H, d, J=8.5Hz), 7.36-7.41(4H, m), 8.20(1H, d, J=5.3Hz), 8.87(1H, d, J=4.8Hz), 9.28(1H, s) (CDCl3)	402
YB159	1.93-2.05(2H, m), 2.23(2H, d, J=12.6Hz), 3.19(3H, m), 3.58(3H, s), 3.81(2H, d, J=13.2Hz), 7.12-7.16(1H, m), 7.26(1H, s), 7.34(1H, s), 7.56(1H, dd, J=2.4, 8.7Hz), 7.77-7.76(1H, m), 8.20(1H, dd, J=1.2, 5.1Hz), 8.87(1H, d, J=5.1Hz), 9.29(1H, s) (CDCI3)	422
YB160	2.01-2.22(5H, m), 3.20(2H, dd, J=1.4, 11.7Hz), 3.47(3H, s), 3.84(2H, d, J=13.2Hz), 6.99(1H, s), 7.32(1H, m), 7.72(1H, dd, J=2.1, 9.0Hz), 8.09(1H, dd, J=2.7, 9.1Hz), 8.27(1H, m), 9.01(1H, d, J=5.1Hz), 9.31(1H, d, J=1.5Hz) (DMSO-d6)	407
YB162	2.13-2.43(4H,m), 3.10-3.38(3H,m), 3.57(3H,s), 3.65-3.83(2H,m), 7.30-7.40(3H,m), 7.45-7.59(1H,m), 7.62-7.80(1H,m), 8.10-8.22(1H,m), 8.88(1H,d,J=5.1Hz), 9.28(1H,s)(CDCI3)	389
YB193	2.22-2.39(4H, m), 3.21-3.35(2H, m), 3.48(3H, s), 3.90(2H, d, J=13.5 Hz), 7.03(1H, s), 7.38-7.43(1H, m), 7.46-7.51(2H, m), 7.59-7.66(2H, m), 8.28(1H, d, J=5.0 Hz), 9.01(1H, d, J=5.0 Hz), 9.30(1H, s)(DMSO-d6)	373
YB251	2.01-2.22(5H, m), 3.20(2H, dd, J=11.4, 11.7Hz), 3.47(3H, s), 3.82(2H, d, J=13.2Hz), 7.32(1H, m), 6.70(1H, s), 7.72(1H, dd, J=2.1, 9.0Hz), 8.09(1H, dd, J=2.7, 9.1Hz), 8.27(1H, m), 9.01(1H, d, J=5.1Hz), 9.31(1H, d, J=1.5Hz)(DMSO-d6)	406

YB252	1.64(2H, m), 2.23(2H, d, J=8.9Hz), 2.44(3H, s), 2.97-3.11(1H, m), 3.16(2H, dd, J=11.1, 11.4Hz), 3.58(3H, s), 3.77(2H, d, J=13.0Hz) 7.12(1H, d, J=8.5Hz), 7.36-7.41(4H, m), 8.20(1H, d, J=5.3Hz), 8.87(1H, d, J=4.8Hz), 9.28(1H, s)(CDCI3)	401
YB253	1.93-2.05(2H, m), 2.23(2H, d, J=12.6Hz), 3.19(3H, m), 3.58(3H, s), 3.81(2H, d, J=13.2Hz), 7.12-7.16(1H, m), 7.26(1H, s) 7.34(1H, s), 7.56(1H, dd, J=2.4, 8.7Hz), 7.11-7.76(1H, m), 8.20(1H, dd, J=1.2, 5.1Hz), 8.87(1H, d, J=5.1Hz), 9.29(1H, s)(CDCl3)	421
YB254	1.72-1.94(8H, m), 2.52(4H, m), 2.97-3.05(3H, m), 3.56(3H, s), 3.61(2H, s), 3.67-3.73(2H, m), 7.21-7.34(4H, m), 8.17(1H, d, J=5.4 Hz), 8.86(1H, d, J=5.1 Hz), 9.27(1H, s) (CDCI3)	431
YB255	1.78 (1H, m), 1.89 (3H, m), 1.96 (3H, m), 2.13 (1H, d, J = 13.6 Hz), 3.46 (2H, m), 3.56 (3H, s), 3.66 (2H, t, J = 6.8 Hz), 3.73 (2H, m), 7.30 (2H, d, J = 8.0 Hz), 7.31 (1H, s), 7.52 (2H, d, J = 5.2 Hz), 8.15 (1H, d, J = 5.2 Hz), 8.86 (1H, d, J = 5.2 Hz), 9.27 (1H, s)	444
YB256	1.46-1.73(9H, m), 2.01(2H, d, J=12.1Hz), 2.56(4H, t, J=5.0Hz), 2.94(2H, td, J=1.3, 12.7Hz), 3.52(3H, s), 3.70(2H, d, J=13.8Hz), 7.27(1H, s), 8.18(1H, dd, J=1.3, 5.3Hz), 8.86(1H, d, J=5.3Hz), 9.27(1H, d, J=1.3Hz)(CDCI3)	354
YB257	1.81-1.88(4H, m), 2.80(1H, m), 2.99-3.08(2H, m), 3.46(3H, s), 3.82-3.86(2H, m), 6.98(1H, s), 7.26-7.43(3H, m), 7.53(1H, s), 8.26(1H, d, J=4.8Hz), 9.01(1H, d, J=4.8 Hz), 9.30(1H, s) (DMSO-d6)	425
YB258	1.80-1.90(4H, m), 2.83(1H, m), 2.99-3.08(2H, m), 3.46(3H, s), 3.81-3.86(2H, m), 6.98(1H, s), 7.26-7.43(3H, m), 7.53(1H, s), 8.26(1H, d, J=4.8Hz), 9.01(1H, d, J=4.8 Hz), 9.30(1H, s) (DMSO-d6)	425
YB259	1.76-1.96(8H, m), 2.67(1H, m), 2.99-3.07(2H, m), 3.16-3.21(4H, m), 3.45(3H, s), 3.79-3.84(2H, m), 6.49(2H, d, J=8.4 Hz) 6.97(1H, s), 7.09(2H, d, J=8.4 Hz), 8.24(1H, d, J=5.1Hz), 9.01(1H, d, J=5.1 Hz), 9.30(1H, s) (DMSO-d6)	417
YB260	1.87-1.99(8H, m), 2.72(1H, m), 2.99-3.09(2H, m), 3.19-3.23(4H, m), 3.46(3H, s), 3.80-3.85(2H, m), 6.38(1H, d, J=7.8 Hz) 6.44(1H, s), 6.53(1H, d, J=7.8 Hz), 6.98(1H, s), 7.09(1H, dd, J=7.8, 7.8Hz), 8.25(1H, d, J=5.1Hz), 9.01(1H, d, J=5.1Hz), 9.30(1H, s) (DMSO-d6)	417
YB261	1.48-1.58(2H, m), 2.00-2.07(2H, m), 2.71(6H, s), 3.07-3.14(2H, m), 3.34-3.36(1H, m), 3.48(3H, s), 3.69-3.73(2H, m), 4.87(1H, d, J=8.2Hz), 6.56-6.66(4H, m), 6.96(1H, s), 8.24(1H, d, J=4.2Hz), 9.00(1H, d, J=4.2Hz), 9.30(1H, s)(DMSO-d6)	406

YB262	1.51-1.62(2H, m), 2.02-2.08(2H, m), 3.10-3.18(2H, m), 3.42(3H, s), 3.46-3.50(1H, m), 3.67(3H, s), 3.69-3.73(2H, m), 5.56(1H, d, J=8.2Hz), 6.10-6.24(3H, m), 6.94-6.99(2H, m), 8.24(1H, d, J=4.2Hz), 9.00(1H, d, J=4.2Hz), 9.29(1H, s)(DMSO-d6)	393
YB263	1.48-1.58(2H, m), 2.01-2.08(2H, m), 3.08-3.17(2H, m), 3.40(3H, s), 3.41-3.43(1H, m), 3.63(3H, s), 3.69-3.73(2H, m), 5.09(1H, d, J=8.2Hz), 6.59(2H, d, J=7.2Hz), 6.72(2H, d, J=7.2Hz), 6.96(1H, s), 8.24(1H, d, J=4.2Hz), 9.01(1H, d, J=4.2Hz), 9.29(1H, s)(DMSO-d6)	393
YB264	1.58-1.69(2H, m), 2.04-2.08(2H, m), 3.08-3.15(2H, m), 3.42(3H, s), 3.55-3.83(6H, m), 4.57(1H, d, J=8.2Hz), 6.53-6.90(4H, m), 7.03(1H, s), 8.25(1H, d, J=4.2Hz), 9.00(1H, d, J=4.2Hz), 9.30(1H, s)(DMSO-d6)	393
YB265	1.66-1.87(3H, m), 1.91-1.99(1H, m), 2.93-3.08(3H, m), 3.43(3H, s), 3.72-3.78(2H, m), 6.97(1H, s), 7.34(2H, d, J=5.7 Hz), 7.54(2H, d, J=5.4 Hz), 8.18(1H, dd, J=5.4, 1.2 Hz), 8.99(1H, d, J=5.1 Hz), 9.29(1H, d, J=0.9 Hz)(DMSO)	426
YB266	1.71-1.91(4H, m), 2.41-2.45(2H, m), 2.53-2.56(4H, m), 2.93-3.00(3H, m), 3.08-3.10(4H, m), 3.43(3H, s), 3.50-3.54(2H, m), 3.67-3.71(2H, m), 4.42-4.46(1H, m), 6.90(2H, d, J=7.2Hz), 6.96(1H, s), 7.19(2H, d, J=7.2Hz), 8.17(1H, dd, J=1.2, 4.2Hz), 8.99(1H, d, J=4.2Hz), 9.29(1H, d, J=1.2Hz)(DMSO-d6)	476
YB267	1.70-1.94(4H, m), 2.86(6H, s), 2.89-2.90(3H, m), 3.43(3H, s), 3.66-3.77(2H, m), 6.71(2H, d, J=7.2Hz), 6.96(1H, s), 7.15(2H, d, J=7.2Hz), 8.17(1H, d, J=4.2Hz), 8.99(1H, d, J=4.2Hz), 9.28(1H, s)(DMSO-d6)	391
YB268	1.72-1.84(4H, m), 2.89-3.08(7H, m), 3.43(3H, s), 3.67-3.77(6H, m), 6.90-6.96(3H, m), 7.21(2H, d, J=7.2Hz), 8.17(1H, d, J=4.2Hz), 8.99(1H, d, J=4.2Hz), 9.29(1H, s)(DMSO-d6)	433
YB269	1.51-1.83(10H, m), 2.87-3.00(3H, m), 3.07-3.10(4H, m), 3.43(3H, s), 3/68-3.77(2H, m), 6.89(2H, d, J=7.2Hz), 6.96(1H, s), 7.17(2H, d, J=7.2Hz), 8.18(1H, d, J=4.2Hz), 8.99(1H, d, J=4.2Hz), 9.29(1H, s)(DMSO-d6)	431
YB270	1.72-1.90(4H, m), 2.21(3H, s), 2.42-2.45(4H, m), 2.87-2.97(3H, m), 3.08-3.10(4H, m), 3.43(3H, s), 3.67-3.77(2H, m), 6.90(2H, d, J=7.2Hz), 6.96(1H, s), 7.19(2H, d, J=7.2Hz), 8.17(1H, d, J=4.2Hz), 8.98(1H, d, J=4.2Hz), 9.29(1H, s)(DMSO-d6)	446
YB271	1.63-1.95(6H, m), 2.04-2.08(2H, m), 2.61-2.65(2H, m), 2.69(6H, s), 2.86-3.00(3H, m), 3.13-3.16(1H, m), 3.43(3H, s), 3.67-3.81(4H, m), 6.92-6.96(3H, m), 7.20(2H, d, J=7.2Hz), 8.17(1H, d, J=4.2Hz), 9.00(1H, d, J=4.2Hz), 9.29(1H, s)(DMSO-d6)	474

	4 70 4 00/411	
YB272	1.72-1.83(4H, m), 2.89-3.09(7H, m), 3.42(3H, s), 3.54-3.57(4H, m), 3.67-3.77(2H, m), 5.11(2H, s), 6.91-6.96(3H, m), 7.21(2H, d, J=7.2Hz), 7.26-7.44(5H, m), 8.17(1H, d, J=4.2Hz), 8.99(1H, d, J=4.2Hz), 9.29(1H, s)(DMSO-d6)	566
YB273	1.57-1.63(2H, m), 1.82-1.89(2H, m), 2.51-2.98(13H, m), 3.41(3H, s), 3.76-3.80(3H, m), 6.70(1H, s), 8.22(1H, d, J=4.2Hz), 9.01(1H, d, J=4.2Hz), 9.30(1H, s)(DMSO-d6)	370
YB274	1.52-1.63(2H, m), 1.84-1.90(2H, m), 2.36-2.42(11H, m), 2.86-2.94(2H, m), 3.40(3H, s), 3.49-3.53(2H, m), 3.73-3.77(2H, m), 4.40-4.43(1H, m), 6.96(1H, s), 8.22(1H, d, J=4.2Hz), 9.01(1H, d, J=4.2Hz), 9.30(1H, s)(DMSO-d6)	400
YB275	1.72-1.92(4H, m), 2.80-3.02(11H, m), 3.28-3.30(1H, m), 3.43(3H, s), 6.88(2H, d, J=7.2Hz), 6.96(1H, s), 7.18(2H, d, J=7.2Hz), 8.18(1H, d, J=4.2Hz), 8.99(1H, d, J=4.2Hz), 9.29(1H, s)(DMSO-d6)	432
YB276	1.06-1.38(5H, m), 1.61-1.92(9H, m), 2.77-2.91(3H, m), 3.03-3.12(1H, m), 3.42(3H, s), 3.64-3.75(2H, m), 5.27(1H, d, J=8.2Hz), 6.52(2H, d, J=7.2Hz), 6.96(1H, s), 7.02(2H, d, J=7.2Hz), 8.17(1H, d, J=4.2Hz), 8.99(1H, d, J=4.2Hz), 9.28(1H, s)(DMSO-d6)	445
YB277	1.76-1.97(4H, m), 2.97-3.10(5H, m), 3.47(3H, s), 3.73-3.76(2H, m), 3.88-3.93(2H, m), 6.71(1H, dd, J=7.2, 7.3Hz), 6.96-7.34(8H, m), 8.19(1H, d, J=4.2Hz), 9.00(1H, d, J=4.2Hz), 9.29(1H, s)(DMSO-d6)	465
YB278	1.10-1.15(1H, m), 1.32-1.47(4H, m), 1.64-1.82(9H, m), 2.69(3H, s), 2.82-2.97(3H, m), 3.42(3H, s), 3.54-3.75(3H, m), 6.73(2H, d, J=7.2Hz), 6.95(1H, s), 7.13(2H, d, J=7.2Hz), 8.16(1H, d, J=4.2Hz), 8.98(1H, d, J=4.2Hz), 9.28(1H, s)(DMSO-d6)	459

Test Example: Inhibitory activity of the medicament of the present invention against P-GS1 phosphorylation by bovine cerebral TPK1

A mixture containing 100 mM MES-sodium hydroxide (pH 6.5), 1 mM magnesium acetate, 0.5 mM EGTA, 5 mM β -mercaptoethanol, 0.02% Tween 20, 10% glycerol, 12 μ g/ml P-GS1, 41.7 μ M [γ -32P] ATP (68 kBq/ml), bovine cerebral TPK1 and a compound shown in Table (a final mixture contained 1.7% DMSO deriving from a solution of a test compound prepared in the presence of 10% DMSO) was used as a reaction system. The phosphorylation was started by adding ATP, and the

reaction was conducted at 25°C for 2 hours, and then stopped by adding 21% perchloric acid on ice cooling. The reaction mixture was centrifuged at 12,000 rpm for 5 minutes and adsorbed on P81 paper (Whatmann), and then the paper was washed four times with 75 mM phosphoric acid, three times with water and once with acetone. The paper was dried, and the residual radioactivity was measured using a liquid scintillation counter. The results are shown in the table below. The test compound markedly inhibited the P-GS1 phosphorylation by TPK1. The results strongly suggest that the medicaments of the present invention inhibit the TPK1 activity, thereby suppress the A β neurotoxicity and the PHF formation, and that the medicaments of the present invention are effective for preventive and/or therapeutic treatment of Alzheimer disease and the above-mentioned diseases.

Table 6

Compound No.	IC ₅₀
XA361	0.018 μ M
XB80	0.23 μ M
¥A0864	0.216μ M
YB257	0.014 μ M

Formulation Example

(1) Tablets

The ingredients below were mixed by an ordinary method and compressed by using a conventional apparatus.

Compound of Example 1	30 mg
Crystalline cellulose	60 mg
Corn starch	100 mg
Lactose	$200 \; \mathrm{mg}$
Magnesium stearate	4 mg

(2) Soft capsules

The ingredients below were mixed by an ordinary method and filled in soft capsules.

Compound of Example 1	$30~\mathrm{mg}$
Olive oil	300 mg
Lecithin	20 mg

Industrial Applicability

The compounds of the present invention have TPK1 inhibitory activity and are useful as an active ingredient of a medicament for preventive and/or therapeutic treatment of diseases caused by abnormal advance of TPK1 such as neurodegenerative diseases (e.g. Alzheimer disease) and the above-mentioned diseases.

CLAIMS

1. A pyrimidone derivative represented by formula (I) or a salt thereof, or a solvate thereof or a hydrate thereof:

$$(X)_{m} \xrightarrow{N}_{N} O$$

$$(Y)_{n} \xrightarrow{R} O$$

$$(I)$$

wherein Q represents CH or nitrogen atom;

R represents a C_1 - C_{12} alkyl group which may be substituted; the ring of:

()

represents piperazine ring or piperidine ring; each X independently represents

$$X^1 - X^2 -$$

wherein X¹ represents an oxo group; a C¹-C³ alkyl group which may be substituted; a C³-C³ cycloalkyl group which may be substituted; an optionally partially hydrogenated C6-C¹0 aryl ring which may be substituted; an indan ring which may be substituted; an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and having 5 to 10 ring-constituting atoms in total; an aralkyloxy group; a group represented by -N(Ra)(Rb) wherein Ra and Rb are the same or different and each is hydrogen, a C¹-C⁴ alkyl group which may be substituted, an aralkyl group which may be substituted, an

aryl group which may be substituted, C₁-C₈ alkylcarbonyl group which may be substituted,

C₃-C₈ cycloalkylcarbonyl group which may be substituted, aralkycarbonyl group which may be substituted, C₆-C₁₀ arylcarbonyl group which may be substituted, C₁-C₈ alkysulfonyl group which may be substituted, C₃-C₈ cycloalkylsulfonyl group which may be substituted, aralkysulfonyl group which may be substituted, C₆-C₁₀ arylsulfonyl group which may be substituted, C₁-C₈ alkyloxycarbonyl group which may be substituted, C₃-C₈ cycloalkyloxycarbonyl group which may be substituted, aralkyoxycarbonyl group which may be substituted,

N-C1-C8 alkylaminocarbonyl group which may be substituted,

C₆-C₁₀ aryloxycarbonyl group which may be substituted,

aminocarbonyl,

N, N'-C1-C8 dialkylaminocarbonyl group which may be substituted,

N-C1-C8 alkyl-N'-C3-C8 cycloalkylaminocarbonyl group which may be substituted,

N-C₁-C₈ alkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C₁-C₈ alkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted,

C₃-C₈ cycloalkylaminocarbonyl group which may be substituted,

N,N'-C3-C8 dicycloalkylaminoycarbonyl group which may be substituted,

N-C₃-C₈ cycloalkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C₃-C₈ cycloalkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted, aralkylaminocarbonyl group which may be substituted,

N,N'-diaralkylaminocarbonyl group which may be substituted,

N-aralkyl- N'-C6-C10 arylaminocarbonyl group which may be substituted,

C₆-C₁₀ arylaminocarbonyl group which may be substituted,

N,N'-C6-C10 diarylaminocarbonyl group which may be substituted,

or an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and having 5 to 10 ring-constituting atoms in total; or Ra and Rb together with the adjacent nitrogen atom form a 4 to 7 membered heterocyclic ring which may further contain 1 to 4 groups selected from an oxygen atom, a sulfur atom, N-Rc (wherein Rc represents a hydrogen atom, a C1-C4 alkyl group which may be substituted, an aralkyl group which may be substituted, C₃-C₈ cycloalkyl group which may be substituted or an aryl group which may be substituted, C₁-C₈ alkylcarbonyl group which may be substituted, C₃-C₈ cycloalkylcarbonyl group which may be substituted, aralkycarbonyl group which may be substituted, C₆-C₁₀ arylcarbonyl group which may be substituted, C₁-C₈ alkysulfonyl group which may be substituted, C₃-C₈ cycloalkylsulfonyl group which may be substituted, aralkysulfonyl group which may be substituted, C₆-C₁₀ arylsulfonyl group which may be substituted, C₁-C₈ alkyloxycarbonyl group which may be substituted, C₃-C₈ cycloalkyloxycarbonyl group which may be substituted, aralkyoxycarbonyl group which may be substituted,

N-C₁-C₈ alkylaminocarbonyl group which may be substituted,

C₆-C₁₀ aryloxycarbonyl group which may be substituted,

aminocarbonyl,

N, N'-C1-C8 dialkylaminocarbonyl group which may be substituted,

N-C₁-C₈ alkyl-N'-C₃-C₈ cycloalkylaminocarbonyl group which may be substituted,

N-C1-C8 alkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C₁-C₈ alkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted,

C3-C8 cycloalkylaminocarbonyl group which may be substituted,

N,N'-C3-C8 dicycloalkylaminoycarbonyl group which may be substituted,

N-C₃-C₈ cycloalkyl-N'-aralkylaminocarbonyl group which may be substituted, N-C₃-C₈ cycloalkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted, aralkylaminocarbonyl group which may be substituted,

N,N'-diaralkylaminocarbonyl group which may be substituted,

N-aralkyl- N'-C6-C10 arylaminocarbonyl group which may be substituted,

C₆-C₁₀ arylaminocarbonyl group which may be substituted,

N,N'-C6-C10 diarylaminocarbonyl group which may be substituted,

or an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and having 5 to 10 ring-constituting atoms in total),

a carbonyl group, a sulfinyl group or a sulfonyl group in the ring, and said 4 to 7 membered heterocyclic ring may optionally be fused with an aryl group which may

X² represents a bond, a carbonyl group, a sulfinyl group, a sulfonyl group, an oxygen atom, a sulfur atom, a C₁-C₄ alkylene group which may be substituted or N-Rd (Rd represents a hydrogen atom, a C₁-C₄ alkyl group which may be substituted, an aralkyl group which may be substituted, C₃-C₃ cycloalkyl group which may be substituted,
C₁-C₃ alkylcarbonyl group which may be substituted.

C₈-C₈ cycloalkylcarbonyl group which may be substituted, aralkycarbonyl group which may be substituted,

C₆-C₁₀ arylcarbonyl group which may be substituted,

be substituted;

C1-C8 alkysulfonyl group which may be substituted,

 $C_8\text{-}C_8$ cycloalkylsulfonyl group which may be substituted, aralkysulfonyl group which may be substituted,

C₆-C₁₀ arylsulfonyl group which may be substituted,

 C_1 - C_8 alkyloxycarbonyl group which may be substituted, C_3 - C_8 cycloalkyloxycarbonyl group which may be substituted, aralkyoxycarbonyl group which may be substituted, C_6 - C_{10} aryloxycarbonyl group which may be substituted, aminocarbonyl,

N-C1-C8 alkylaminocarbonyl group which may be substituted,

 \mathbb{N} , \mathbb{N}' - \mathbb{C}_1 - \mathbb{C}_8 dialkylaminocarbonyl group which may be substituted,

N-C₁-C₈ alkyl-N'-C₃-C₈ cycloalkylaminocarbonyl group which may be substituted,

N-C₁-C₈ alkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C1-C8 alkyl-N'-C6-C10 arylaminocarbonyl group which may be substituted,

C₃-C₈ cycloalkylaminocarbonyl group which may be substituted,

N,N'-C3-C8 dicycloalkylaminoycarbonyl group which may be substituted,

N-C₃-C₈ cycloalkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C₃-C₈ cycloalkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted, aralkylaminocarbonyl group which may be substituted,

N,N'-diaralkylaminocarbonyl group which may be substituted,

N-aralkyl- N'-C6-C10 arylaminocarbonyl group which may be substituted,

C₆-C₁₀ arylaminocarbonyl group which may be substituted,

N,N'-C6-C10 diarylaminocarbonyl group which may be substituted,

or an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and having 5 to 10 ring-constituting atoms in total);

m represents an integer of 1 to 3;

each Y independently represents a halogen atom, a hydroxy group, a cyano group, Y1-Y3- wherein Y1 represents a C1-C8 alkyl group which may be substituted; a C3-C8 cycloalkyl group which may be substituted or a C6-C10 aryl ring which may be substituted; Y3 represents a carbonyl group, a sulfinyl group, a sulfonyl group, an oxygen atom, a sulfur atom, a C1-C4 alkylene group which may be substituted or

N-Re (Re represents a hydrogen atom, a C₁-C₄ alkyl group which may be substituted, an aralkyl group which may be substituted, C₃-C₅ cycloalkyl group which may be substituted or an aryl group which may be substituted,

C1-C8 alkylcarbonyl group which may be substituted,

 $\mathrm{C}_{3}\text{-}\mathrm{C}_{8}$ cycloalkylcarbonyl group which may be substituted,

aralkycarbonyl group which may be substituted,

C₆-C₁₀ arylcarbonyl group which may be substituted,

C1-C8 alkysulfonyl group which may be substituted,

C3-C8 cycloalkylsulfonyl group which may be substituted,

aralkysulfonyl group which may be substituted,

C₆-C₁₀ arylsulfonyl group which may be substituted,

C₁-C₈ alkyloxycarbonyl group which may be substituted,

C3-C8 cycloalkyloxycarbonyl group which may be substituted,

aralkyoxycarbonyl group which may be substituted,

 C_6 - C_{10} aryloxycarbonyl group which may be substituted,

aminocarbonyl,

N-C₁-C₈ alkylaminocarbonyl group which may be substituted,

N, N'-C1-C8 dialkylaminocarbonyl group which may be substituted,

N-C₁-C₈ alkyl-N'-C₃-C₈ cycloalkylaminocarbonyl group which may be substituted,

N-C₁-C₈ alkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C₁-C₈ alkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted,

C₃-C₈ cycloalkylaminocarbonyl group which may be substituted,

N,N'-C3-C8 dicycloalkylaminoycarbonyl group which may be substituted,

N-C₃-C₈ cycloalkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C₃-C₈ cycloalkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted, aralkylaminocarbonyl group which may be substituted,

N,N'-diaralkylaminocarbonyl group which may be substituted,

N-aralkyl- N'-C6-C10 arylaminocarbonyl group which may be substituted,

C₆-C₁₀ arylaminocarbonyl group which may be substituted,

N,N'-C₆-C₁₀ diarylaminocarbonyl group which may be substituted,

or an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and having 5 to 10 ring-constituting atoms in total),

n represents an integer of 0 to 8;

when X and Y or two Y groups are attached on the same carbon atom, they may combine to each other to form a C_2 - C_6 alkylene group; and when m is 1, n is 0, and X is X^1 -CO-,

- (1) X does not bind to 3-position of unsubstituted 1-piperazinyl group or does not bind to 3-position of a 4-alkyl-1-piperazinyl group; or
- (2) X does not bind to 3-position or 4-position of non-substituted 1-piperidinyl group.
- 2. The pyrimidone derivative or the salt thereof, or the solvate thereof or the hydrate thereof according to claim 1 having the following formula(II)

$$(X)_{p}$$

$$(X)_{q}$$

$$(Y)_{r}$$

$$(X)_{q}$$

$$(Y)_{r}$$

$$(X)_{q}$$

$$(X)_{q}$$

$$(Y)_{r}$$

$$(X)_{q}$$

$$(X)_{q}$$

$$(X)_{q}$$

$$(Y)_{r}$$

wherein Q, R, X and Y are the same as those defined in claim 1; p is 0 or 1; q is 0 or 1; r is an integer of 0 to 6; p+q is 1 or 2; and \mathbb{Z} represents N or $\mathbb{C}\mathbb{Z}^1$ wherein \mathbb{Z}^1 represents hydrogen atom or Y.

3. The pyrimidone derivative or the salt thereof, or the solvate thereof or the hydrate thereof according to claim 2, wherein R is a C₁-C₃ alkyl group which

may be substituted by a C₃-C₈ cycloalkyl group.

4. The pyrimidone derivative or the salt thereof, or the solvate thereof or the hydrate thereof according to claim 3, wherein R is methyl group or ethyl group; Y is in 3-, 4- or 5-position of the piperazine ring or the piperidine ring; p+q is 1; and r is an integer of 0 to 3.

- 5. The pyrimidone derivative or the salt thereof, or the solvate thereof or the hydrate thereof according to claim 4, wherein X is a C₁-C₈ alkyl group which may be substituted or a C₆-C₁₀ aryl ring which may be substituted; Y is a C₁-C₆ alkyl group which may be substituted; p is 1; q is 0; r is an integer of 0 to 3; and Z is N or CH.
- 6. The pyrimidone derivative or the salt thereof, or the solvate thereof or the hydrate thereof according to claim 5, wherein X is a benzene ring which may be substituted, a benzyl group which may be substituted; Y is a methyl group which may be substituted; Z is N and r is 0 or 1.
- 7. The pyrimidone derivative or the salt thereof, or the solvate thereof or the hydrate thereof according to claim 4, wherein X is a benzene ring which may be substituted, a benzyl group which may be substituted, a benzyl group which may be substituted; Y is a methyl group which may be substituted; Z is N and p is 0.
- 8. The pyrimidone derivative or the salt thereof, or the solvate thereof or the hydrate thereof according to claim 4, wherein X is a C₁-C₈ alkyl group substituted by a benzene ring which may be substituted or a benzene ring which may be substituted; Y is a hydroxy group, a cyano group, or Y¹-CO- wherein Y¹ is a C₁-C₈ alkyl group; Z is CH or C-Y and r is 0 or 1.
- 9. The pyrimidone derivative or the salt thereof, or the solvate thereof or the hydrate thereof according to claim 8, wherein X is a benzyl group which may be substituted or a benzene ring which may be substituted; Y is a hydroxy group, a cyano group, or an acetyl group; Z is CH or C-Y and r is 0 or 1.

10. A pyrimidone derivative which is selected from the group consisting of: 2-(3-Phenylpiperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(4-Fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(3-Fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(2-Fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(4-Chlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; (S)-2-(3-(4-Chlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4one; (R)-2-(3-(4-Chlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4one; 2-(3-(3-Chlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(2-Chlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(4-Bromophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(3-Bromophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(2-Bromophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(4-Methylphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(3-Methylphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(2-Methylphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(4-Cyanophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(3-Cyanophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(2-Cyanophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(4-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(3-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(2-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(2-Ethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(5-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3Hpyrimidin-4-one; 2-(3-(4-Fluoro-3-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-

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pyrimidin-4-one;
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- 2-(3-(4-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- (S)-2-(3-(4-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- (R)-2-(3-(4-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(4-Chloro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(4-Fluoro-2-methylphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- 2-(3-(2-Fluoro-6-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- 2-(3-(5-Bromo-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- 2-(3-(2-Bromo-4-fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- 2-(3-(2-Chloro-6-fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- 2-(3-(2,4-Difluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(2,6-Difluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(2,6-Dichlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- 2-(3-(2,4-Dimethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- $2\hbox{-}(3\hbox{-}(3,4\hbox{-Dimethoxyphenyl}) piperazin-1\hbox{-}yl)-3\hbox{-methyl-}6\hbox{-}(4\hbox{-pyridyl})-3H\hbox{-pyrimidin-}1$

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4-one;
2-(3-(2,5-Dimethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-
4-one;
2-(3-(2,6-Dimethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-
4-one;
2-(3-(2,4-Difluoro-6-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-
pyrimidin-4-one;(1034)
2-(3-(5-Cyano-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-
pyrimidin-4-one;
2-(3-(4-Cyano-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-
pyrimidin-4-one;
2-(3-(1-Naphthyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
2-(3-(2-Naphthyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;\\
2-(3-(2,3-Dihydrobenzofuran-7-yl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-
pyrimidin-4-one;
2-(3-(Benzofuran-2-yl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
(S)-2-(3-(Benzofuran-2-yl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-
one;
2-(3-(4-(Pyrrolidin-1-yl-methyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-
pyrimidin-4-one;
2-(3-(4-(Pyrrolidin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-
pyrimidin-4-one;
2-(3-(2-methoxy-4-(pyrrolidin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-
3H-pyrimidin-4-one;
2-(3-(2-methoxy-5-(pyrrolidin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-
3H-pyrimidin-4-one;
2-(3-(4-(Phenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
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2-(3-(4-(4-Fluorophenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-

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pyrimidin-4-one;
    2\hbox{-}(3\hbox{-}(4\hbox{-}(4\hbox{-}Methoxyphenyl)phenyl)piperazin-1-yl)-3-methyl-6\hbox{-}(4\hbox{-}pyridyl)-3H-2-(4\hbox{-}(4\hbox{-}Methoxyphenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4\hbox{-}pyridyl)-3H-2-(4\hbox{-}(4\hbox{-}Methoxyphenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4\hbox{-}pyridyl)-3H-2-(4\hbox{-}(4\hbox{-}Methoxyphenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4\hbox{-}pyridyl)-3H-2-(4\hbox{-}(4\hbox{-}Methoxyphenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4\hbox{-}pyridyl)-3H-2-(4\hbox{-}(4\hbox{-}Methoxyphenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4\hbox{-}pyridyl)-3H-2-(4\hbox{-}(4\hbox{-}Methoxyphenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4\hbox{-}pyridyl)-3H-2-(4\hbox{-}(4\hbox{-}Methoxyphenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4\hbox{-}pyridyl)-3H-2-(4\hbox{-}(4\hbox{-}Methoxyphenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4\hbox{-}pyridyl)-3H-2-(4\hbox{-}(4\hbox{-}Methoxyphenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4\hbox{-}(4\hbox{-}Methoxyphenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4\hbox{-}(4\hbox{-}Methoxyphenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4\hbox{-}(4\hbox{-}Methoxyphenyl)phenyl)phenyl-6-(4\hbox{-}(4\hbox{-}Methoxyphenyl)phenyl-6-(4\hbox{-}(4\hbox{-}Methoxyphenyl)phenyl-6-(4\hbox{-}(4\hbox{-}Methoxyphenyl)phenyl-6-(4\hbox{-}(4\hbox{-}Methoxyphenyl)phenyl-6-(4\hbox{-}(4\hbox{-}Methoxyphenyl)phenyl-6-(4\hbox{-}(4\hbox{-}Methoxyphenyl)phenyl-6-(4\hbox{-}(4\hbox{-}Methoxyphenyl)phenyl-6-(4\hbox{-}(4\hbox{-}Methoxyphenyl)phenyl-6-(4\hbox{-}(4\hbox{-}Methoxyphenyl)phenyl-6-(4\hbox{-}(4\hbox{-}Methoxyphenyl)phenyl-6-(4\hbox{-}(4\hbox{-}Methoxyphenyl)phenyl-6-(4\hbox{-}(4\hbox{-}Methoxyphenyl)phenyl-6-(4\hbox{-}(4\hbox{-}Methoxyphenyl)phenyl-6-(4\hbox{-}(4\hbox{-}(4\hbox{-}Methoxyphenyl)phenyl-6-(4\hbox{-}(4\hbox{-}(4\hbox{-}(4\hbox{-}Methoxyphenyl)phenyl-6-(4\hbox{-}(4\hbox{-
    pyrimidin-4-one;
   2\hbox{-}(3\hbox{-}(4\hbox{-}(2\hbox{-Methoxyphenyl}) phenyl) piperazin-1-yl)-3\hbox{-methyl-}6\hbox{-}(4\hbox{-pyridyl})-3H-2-(4\hbox{-methyl-}6\hbox{-}(4\hbox{-pyridyl})-3H-2-(4\hbox{-methyl-}6\hbox{-}(4\hbox{-pyridyl})-3H-2-(4\hbox{-methyl-}6\hbox{-}(4\hbox{-pyridyl})-3H-2-(4\hbox{-methyl-}6\hbox{-}(4\hbox{-pyridyl})-3H-2-(4\hbox{-methyl-}6\hbox{-}(4\hbox{-pyridyl})-3H-2-(4\hbox{-methyl-}6\hbox{-}(4\hbox{-pyridyl})-3H-2-(4\hbox{-methyl-}6\hbox{-}(4\hbox{-methyl-}6\hbox{-}(4\hbox{-methyl-}6\hbox{-}(4\hbox{-methyl-}6\hbox{-}(4\hbox{-methyl-}6\hbox{-}(4\hbox{-methyl-}6\hbox{-}(4\hbox{-methyl-}6\hbox{-}(4\hbox{-methyl-}6\hbox{-}(4\hbox{-methyl-}6\hbox{-}(4\hbox{-methyl-}6\hbox{-}(4\hbox{-methyl-}6\hbox{-}(4\hbox{-methyl-}6\hbox{-}(4\hbox{-methyl-}6\hbox{-}(4\hbox{-methyl-}6\hbox{-}(4\hbox{-methyl-}6\hbox{-}(4\hbox{-methyl-}6\hbox{-}(4\hbox{-methyl-}6\hbox{-}(4\hbox{-methyl-}6\hbox{-}(4\hbox{-methyl-}6\hbox{-}(4\hbox{-methyl-}6\hbox{-}(4\hbox{-methyl-}6\hbox{-}(4\hbox{-methyl-}6\hbox{-}(4\hbox{-methyl-}6\hbox{-}(4\hbox{-methyl-}6\hbox{-}(4\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-}(4\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-methyl-}6\hbox{-me
   pyrimidin-4-one;
   2-(3-(4-(Morpholin-4-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-
   pyrimidin-4-one;
   2-(3-(4-(4-Methylpiperazin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-methyl-6-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-yl-3-(4-pyridyl)-3H-1-y
  pyrimidin-4-one;
  2-(4-Phenylpiperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
  2\hbox{-}(4\hbox{-Benzylpiperazin-1-yl})\hbox{-}3\hbox{-methyl-6-}(4\hbox{-pyridyl})\hbox{-}3H\hbox{-pyrimidin-4-one};
  2-(4-Benzoylpiperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
  2-(4-(1,2-Benzisothiazol-3-yl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-
  pyrimidin-4-one;
  2-(4-Methyl-3-phenylpiperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
  2-(3-(4-Fluoro-2-methoxyphenyl)-4-methylpiperazin-1-yl)-3-methyl-6-(4-pyridyl)-
  3H-pyrimidin-4-one;
  (S)-2-(3-(4-Fluoro-2-methoxyphenyl)-4-methylpiperazin-1-yl)-3-methyl-6-(4-
  pyridyl)-3H-pyrimidin-4-one;
  (R)-2-(3-(4-Fluoro-2-methoxyphenyl)-4-methylpiperazin-1-yl)-3-methyl-6-(4-
 pyridyl)-3H-pyrimidin-4-one;
 2-(4-Acetyl-3-(4-fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-
  3H-pyrimidin-4-one;
 2-(4-Benzyl-3-(4-fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-
3H-pyrimidin-4-one;
2\hbox{-}(4\hbox{-Benzyl-3-}(ethoxycarbonyl) piperazin-1-yl)-3-methyl-6\hbox{-}(4\hbox{-pyridyl})-3H-2-(4\hbox{-Benzyl-3-}(ethoxycarbonyl) piperazin-1-yl)-3-methyl-6-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-2-(4\hbox{-pyridyl})-3H-
pyrimidin-4-one;
2-(4-methyl-3-(1-naphthyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-
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one;

2-(5,5-Dimethyl-3-(2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;

2-(3-Phenylpiperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;

2-(3-(4-Fluorophenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;

2-(3-(3-Fluorophenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;

2-(3-(2-Fluorophenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;

2-(3-(4-Chlorophenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;

2-(3-(4-Bromophenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;

2-(3-(4-Methoxyphenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;

2-(3-(3-Methoxyphenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;

2-(3-(2-Methoxyphenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;

 $2-(3-(4-((Pyrrolidin-1-yl)methyl)phenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3\mathit{H-1}-((Pyrrolidin-1-yl)methyl)phenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3\mathit{H-2}-((Pyrrolidin-1-yl)methyl)phenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3\mathit{H-2}-((Pyrrolidin-1-yl)methyl)phenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3\mathit{H-2}-((Pyrrolidin-1-yl)methyl)phenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3\mathit{H-2}-((Pyrrolidin-1-yl)methyl)-3\mathit{H-2}-((Pyrrolidin-1-yl)methyl)-3\mathit{H-3}-((Pyrroli$

pyrimidin-4-one;

(S)-2-(3-(4-(Pyrrolidin-1-yl-methyl)phenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;

(R)-2-(3-(4-(Pyrrolidin-1-yl-methyl)phenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;

2-(3-Hydroxy-3-phenylpiperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;

2-(3-Phenylpiperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;

2-(3-(4-Fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;

2-(3-(3-Fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;

2-(3-(2-Fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;

one;

2-(3-(3-Chlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;

 $2-(3-(2-\mathrm{Chlorophenyl}) piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidyl-3-methyl-6-(4-pyrimidyl)-3H-pyrimidyl-4-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidyl-4-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidyl-4-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidyl-3-methyl-6-(4-pyrimidyl)-3H-pyrimidyl-4-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidyl-4-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidyl-4-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidyl-4-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidyl-4-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidyl-4-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidyl-4-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidyl-4-yl)-3-yl-6-(4-pyrimidyl)-3H-pyrimidyl-4-yl-6-(4-pyrimidyl)-3H-pyrimidyl-4-yl-6-(4-pyrimidyl)-3H-pyrimidyl-4-yl-6-(4-pyrimidyl)-3H-pyrimidyl-4-yl-6-(4-pyrimidyl)-3H-pyrimidyl-4-yl-6-(4-pyrimidyl)-3H-pyrimidyl-4-yl-6-(4-pyrimidyl)-3H-pyrimidyl-4-yl-6-(4-pyrimidyl)-3H-pyrimidyl-4-yl-6-(4-pyrimidyl)-3H-pyrimidyl-4-yl-6-(4-pyrimidyl)-3H-pyrimidyl-4-yl-6-(4-pyrimidyl)-3H-pyrimidyl-4-yl-6-(4-pyrimidyl)-3H-pyrimidyl-4-yl-6-(4-pyrimidyl-4-yl-6-$

one;

- $2-(3-(4-Bromophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;\\ 2-(3-(3-Bromophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;\\ 2-(3-(2-Bromophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;\\ 2-(3-(4-Cyanophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;\\ 2-(3-(3-Cyanophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;\\ 2-(3-(2-Cyanophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;\\ 2-(3-(4-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;\\ 3-(4-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;\\ 3-(4-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;\\ 3-(4-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;\\ 3-(4-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;\\ 3-(4-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;\\ 3-(4-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimi$
- 2-(3-(3-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(3-(2-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(3-(2-Ethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(6-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(3-(5-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(4-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- (S)-2-(3-(4-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- (R)-2-(3-(4-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(4-Chloro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- $2\hbox{-}(3\hbox{-}(5\hbox{-Bromo-}2\hbox{-methoxyphenyl}) piperazin-1\hbox{-yl})\hbox{-}3\hbox{-methyl-}6\hbox{-}(4\hbox{-pyrimidyl})\hbox{-}3H\hbox{-}4$

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pyrimidin-4-one;
2-(3-(2,6-Dichlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-
one;
2-(3-(2,4-Dimethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-
one;
2-(3-(3,4-Dimethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-
pyrimidin-4-one;
2-(3-(2,5-Dimethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-
pyrimidin-4-one;
2-(3-(2,6-Dimethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-
pyrimidin-4-one;
2-(3-(2,4-Difluoro-6-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-
pyrimidin-4-one;
2-(3-(1-Naphthyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
2-(3-(2-Naphthyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
2-(3-(2,3-Dihydrobenzofuran-7-yl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-
pyrimidin-4-one;
2-(3-(Benzofuran-2-yl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-
one;
2-(3-(4-(Pyrrolidin-1-yl-methyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-
3H-pyrimidin-4-one;
2-(3-(4-(Pyrrolidin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-
pyrimidin-4-one;
2-(3-(2-methoxy-4-(pyrrolidin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-
pyrimidyl)-3H-pyrimidin-4-one;
2-(3-(2-methoxy-5-(pyrrolidin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-
pyrimidyl)-3H-pyrimidin-4-one;
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2-(3-(4-(Phenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-

one;

- 2-(3-(4-(4-Fluorophenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(3-(4-(4-Methoxyphenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(3-(4-(2-Methoxyphenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(3-(4-(Morpholin-4-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(3-(4-(4-Methylpiperazin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(4-Fluoro-2-methoxyphenyl)-4-methylpiperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- (S)-2-(3-(4-Fluoro-2-methoxyphenyl)-4-methylpiperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- (R)-2-(3-(4-Fluoro-2-methoxyphenyl)-4-methylpiperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(4-Acetyl-3-(4-fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(4-Benzyl-3-(4-fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- $2\hbox{-}(4\hbox{-}(4\hbox{-}Fluorophenyl) piperidin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyrimidyl)-3$$H$-pyrimidin-4-one;$
- $2\hbox{-}(4\hbox{-}\mathrm{Cyano-}4\hbox{-}\mathrm{phenylpiperidin-}1\hbox{-}\mathrm{yl})\hbox{-}3\hbox{-}\mathrm{methyl-}6\hbox{-}(4\hbox{-}\mathrm{pyrimidyl})\hbox{-}3\textit{H-}\mathrm{pyrimidin-}4\hbox{-}\mathrm{one};$
- 2-(4-(6-Fluorobenofuran-3-yl)piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(3-(Benzoisoxazol-3-yl)piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- (S)-2-(3-(Benzoisoxazol-3-yl)piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-

pyrimidin-4-one;

(R)-2-(3-(Benzoisoxazol-3-yl)piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;

2-(3-(6-Fluorobenzoisoxazol-3-yl)piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;

2-(4-(6-Fluorobenzoisoxazol-3-yl)piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;

2-(4-(5-Methylbenzofuran-3-yl)piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one; and

 $2\text{-}(4\text{-}(6\text{-Fluorobenzothiophene-3-yl}) piperidin-1\text{-}yl)\text{-}3\text{-}methyl\text{-}6\text{-}(4\text{-}pyrimidyl)\text{-}3} \textit{H-pyrimidin-4-one}$

or a salt thereof, or a solvate thereof or a hydrate thereof.

- 11. A medicament comprising as an active ingredient a substance selected from the group consisting of the pyrimidone derivative represented by formula (I) and a salt thereof, and a solvate thereof and a hydrate thereof according to claim 1.
- 12. A tau protein kinase 1 inhibitor selected from the group consisting of the pyrimidone derivative represented by formula (I) and a salt thereof, and a solvate thereof and a hydrate thereof according to claim 1.
- 13. The medicament according to claim 11 which is used for preventive and/or therapeutic treatment of a disease caused by tau protein kinase 1 hyperactivity.
- 14. The medicament according to claim 11 which is used for preventive and/or therapeutic treatment of a neurodegenerative disease.
- 15. The medicament according to claim 14, wherein the neurodegenerative disease is selected from the group consisting of Alzheimer disease, ischemic cerebrovascular accidents, Down syndrome, cerebral bleeding due to cerebral amyloid angiopathy, progressive supranuclear palsy, subacute sclerosing panencephalitic parkinsonism, postencephalitic parkinsonism, pugilistic

encephalitis, Guam parkinsonism-dementia complex, Lewy body disease, Pick's disease, corticobasal degeneration, frontotemporal dementia, vascular dementia, traumatic injuries, brain and spinal cord trauma, peripheral neuropathies, retinopathies, and glaucoma.

16. The medicament according to claim 11, wherein the disease is selected from the group consisting of non-insulin dependent diabetes, obesity, manic depressive illness, schizophrenia, alopecia, breast cancer, non-small cell lung carcinoma, thyroid cancer, T or B-cell leukemia, and a virus-induced tumor.

INTERNATIONAL SEARCH REPORT

rnational Application No PCT/JP2004/004320

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07D239/47 C07D401/14 C07D405/14 C07D409/14 C07D413/14
C07D417/14 C07D403/14 A61K31/513 A61K31/5377 A61P25/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07D A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BEILSTEIN Data, WPI Data, PAJ, CHEM ABS Data

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SHINSUKE (JP); SHODA AYA (JP); ARITOMO KEIICH) 3 April 2003 (2003–04–03) page 104, line 9 – line 25; claims 1,2,10–25; examples C401–C499,C601–C651,C751–C768,D026–D050 —/— X	ζ.	MITSUBISHI TOKYO PHARMACEUTICA 26 September 2001 (2001-09-26) cited in the application paragraphs '0002!, '0006!; ex	(JP))	1-16
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A* document defining the general state of the art which is not considered to be of particular relevance E* earlier document but published on or after the international filing date L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another clation or other special reason (as specified) O* document referring to an oral disclosure, use, exhibition or other means or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document is combined with one or more other such documents, such combination being obvious to a person skilled	X Furt	her documents are listed in the continuation of box C.	Patent family members are listed	in annex.
later than the priority date claimed "&" document member of the same patent family	"A" docume consider earlier of filing of which citatio other in the country of th	ent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international late ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means	or priority date and not in conflict with cited to understand the principle or the Invention "X" document of particular relevance; the cannot be considered novel or cannot involve an inventive step when the document of particular relevance; the cannot be considered to involve an indocument is combined with one or ments, such combination being obvion in the art.	the application but early underlying the claimed invention to considered to cournent is taken alone claimed invention eventive step when the ore other such docu-us to a person skilled

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INTERNATIONAL SEARCH REPORT

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C (Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	FC1/JP2004/004320 .
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